

## SEQUENCE LISTING

<110> Craig Rosen,  
Steve Ruben

<120> Human Breast and Ovarian Cancer Associated Gene Sequences and  
Polypeptides

<130> PA103PCT

<140> Unassigned

<141> 2000-03-08

<150> 60/124,270

<151> 1999-03-12

<160> 846

<170> PatentIn Ver. 2.0

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<211> 1913

<212> DNA

<213> Homo sapiens

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<220>

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<223> n equals a,t,g, or c

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<222> (1908)

<223> n equals a,t,g, or c

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<213> Homo sapiens

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<222> (842)

<223> n equals a,t,g, or c

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&lt;210&gt; 3

&lt;211&gt; 354

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (246)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 3

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ctttcgatgg ggatgtttct gtaacactgt gttattctgg atcttcaaat aatagcaaag 180
ccaattactc taaatgtaaa atttttctat tcccaagggt cacttttggt tggtaggttt 240
tcacgntttt aaatactgtt taatggaaga aaaatacgtg gccaggcgtg gtggctcaca 300
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&lt;210&gt; 4

&lt;211&gt; 514

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (502)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 4

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acggggcacg gcgagaggtc ctgccagata agctgtaggg gctcaggcca ccctccctgc 180
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wraaaaaaaa aaaaaaaaaa cncggggggg gcc 514

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&lt;210&gt; 5

&lt;211&gt; 2035

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 5

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&lt;210&gt; 6

&lt;211&gt; 1196

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens



&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (157)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (998)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 6

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&lt;210&gt; 7

&lt;211&gt; 624

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 7

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aarggaatgt ctgttgatat tctgagtcga ttttcatttg cttttgttcc agaacgggta 600
aaataaagca tattatttca tttta

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<212> DNA  
<213> Homo sapiens

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c 301

<210> 9  
<211> 686  
<212> DNA  
<213> Homo sapiens

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ctcaatttcc atatgttact gaatctgaaa aacatcttta aaattcaaac agttccattt 540  
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catactttaa aagatcaaaa aaaaaa 686

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<212> DNA  
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<223> n equals a,t,g, or c

<220>  
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<222> (394)  
<223> n equals a,t,g, or c

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<213> Homo sapiens

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<220>
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<223> n equals a,t,g, or c

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<220>
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<222> (37)
<223> n equals a,t,g, or c

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<220>
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<222> (510)
<223> n equals a,t,g, or c

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<220>
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<222> (562)
<223> n equals a,t,g, or c

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<210> 12  
 <211> 443  
 <212> DNA  
 <213> Homo sapiens

<400> 12  
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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <222> (713)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
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 <223> n equals a,t,g, or c

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&lt;210&gt; 14

&lt;211&gt; 2347

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 14

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<210> 15

<211> 2006

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (862)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1006)

<223> n equals a,t,g, or c

<400> 15

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<210> 16

<211> 986

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (613)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (932)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (933)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (985)

<223> n equals a,t,g, or c

<400> 16

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<210> 17

<211> 1589

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (25)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (555)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (809)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1033)

<223> n equals a,t,g, or c

<400> 17

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ttcgaagctc agcccccccc cctcattttg gatataggtc agtgaaggcc caggagagg 180
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<210> 18

<211> 846

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (746)

<223> n equals a,t,g, or c

<400> 18

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<211> 2192  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (115)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (2106)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (2118)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (2143)  
<223> n equals a,t,g, or c

<400> 19  
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2192

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&lt;210&gt; 20

&lt;211&gt; 1011

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (54)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 20

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&lt;210&gt; 21

&lt;211&gt; 2019

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2003)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2007)

<223> n equals a,t,g, or c

<400> 21

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aaaaaaaaat tctcgggggg ggnccngta cccaattgg 2019

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<210> 22

<211> 2022

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1588)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1615)

<223> n equals a,t,g, or c

<400> 22

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tgtgacgcca ctcaccttta ctgaggtgca cgagggccgt gctgacatca tgatcgactt 180
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tgtgtgtaca gtgtgtataa accttcttct tctttttttt ttttaaaactg aggattgtca 1920
ttaaacacag ttgttttcta aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1980
aaaaaaaaaa aaaaaggggc gccgctcgcg atctagaact ag 2022
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<210> 23

<211> 1126

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1126)

<223> n equals a,t,g, or c

<400> 23

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gtaaacgtgt gacgggggaa agccaaggtc tggagaagct cccaggaaca ayygatggcc 180
ttgcagcact cacacaggac ccccttcccc taccctctcc tctctgccgc aatacaggaa 240
cccccagggg aaagatgagc ttttctaggc tacaattttc tcccaggaag ctttgatttt 300
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tctcctccaa gacactgtgg acttggtcac cagctcctcc cttgttctct aagttccact 480
gagctccatg tgccccctct accatttgca gagtcttgca cagttttctg gctggagcct 540
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gagtattggg tagatatttt ttctgaatac aaagtgatgt gtttaaatac tgcaattaaa 1080
gtgatactga aacacaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaan 1126
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<210> 24

<211> 2598

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2304)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2500)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2533)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2553)

<223> n equals a,t,g, or c

<400> 24

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raggtttaa garactacca gaccatttct caatgaatgt cttggtagca ccagaccctg 120
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agttcctatt gattcatcag attttgcatt ggatattcgc atgcctgggg ttacacctaa 180
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ggaaatccaa agaagcccga gggcatttgt tgtttcccn ttacaaccct tcgggttatt 2520
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aggggccctt tgggaaga 2598

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&lt;210&gt; 25

&lt;211&gt; 411

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (358)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (368)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (381)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (387)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (392)

<223> n equals a,t,g, or c

<400> 25

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gcaccagat gccagggcg aggtgcgctt gtctgtacct ccgctgggtg aggtgatgcg 180
aggaaagtct gtcattcttg actgcacccc tacgggaacc cacgaccatt atatgctgga 240
atggttcctt accgaccgct cgggagctcg ccccccgccta gcctcggctg agatgcaggg 300
ctctgagctc caggtcacaa tgcacgacac cgggggccgc agtcccccat accagctnng 360
actyccangg ggcgcctggg ngetggnytg anggccark tggcgacgag c 411
```

<210> 26

<211> 657

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (634)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (652)

<223> n equals a,t,g, or c

<400> 26

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aggggaaggg ggaaaggtgt aggctggggg attgaggtgg ggaatcattt tagctggtgt 120
cagccctct tcccttcctc cattgcacat gaacatatgt ccatccatat atattcatca 180
gaatgttaat ttattttgct ccctctgtta ggtccatttt ctaagggtag aagaggcaag 240
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tggtagggat gaggtctgat aagaacccag ggtggagagg gagactcctg ggcagccgtt 300
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gacatgggaa aaaccactgc tatgccattt cttctctctg ttcccttctt caccctcgac 420
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ttccctctgt cagtttcccc tctcgccag gttgtgtccc aaaatcccc cagcctcttc 540
tctgcacgtt gctgaaggtc caggcttgcc tcaagttcca tgcttgagca ataaagtggg 600
aacaataaaa cctgggaaaa aaaaaaagg gggncgttct aaaggatccc cnagggg 657

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&lt;210&gt; 27

&lt;211&gt; 1903

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 27

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gggcacggga ctcgtgccga ttcggcagag cacaaagttt gactccagtc tggatcgcaa 60
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acagactcgc ggtgaaggct atgctaagcc caatgagggt gctatcgtgg aggttgact 360
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gaagatcgtg tcttggctgg aatatgagtc tagtttttcc aatgaggaag cacagaaagc 780
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&lt;210&gt; 28

&lt;211&gt; 1333

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<220>  
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<222> (1311)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1313)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1319)  
<223> n equals a,t,g, or c

<400> 28  
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ccgagtttac ctactaggg ccggaccgct ggctccttag acgacagact acctcacgga 780  
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tgtctgttct gggttttcac gtgcttcaga gaagaggggc tgccccaccg ccaactcacgt 900  
cactcggggc tcggtggacg ggcccagggt gggagckgcc ggcccacctg tccctcggg 960  
aggggagctg agcccagctt ctaccggggt ccccaagctt ccggactggc cgcaccccg 1020  
aggagccacg ggggcgctgc tgggaacgtg ggcggggggc cgtttcctga cactaccagc 1080  
ctgggagggc caggtgtagc ggtccgaggg gcccggtcct gcctgtcagc tccaggtcct 1140  
ggagccacgt ccagcacaga gtggacggat tcaccgtggc cgactctttt ccctgctttg 1200  
gtttgtttga aatctaaata aaactacttt atgagaaaaa aaaaaaaaaa aaaaaaaaaa 1260  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa nanaaaaana 1320  
aaaaaaaaaa ttt 1333

<210> 29  
<211> 1327  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (573)  
<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1307)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1325)

<223> n equals a,t,g, or c

<400> 29

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cttgtttctcc gccgccgccg cccgccgccg ccgccrccgc cgcygccgct gccatggctc 60
aatacaaggc cgccgcgagc gaggccggcc gcgccatgca cctgatgaag aagcgggaga 120
agcagcgcca gcagatggag cagatgaagc agcgcacgcs ggaggagAAC atcatgaaat 180
ccaacattga caagaagtcc tctgcgcact acgacgcggt ggaggcagag ctcaagtcca 240
gcaccgtggg tctcgtgacc ctgaatgaca tgaaggccaa gcaggaggct ctggtgaagg 300
agcgggagaa gcagctggcc aagaaggagc agtccaagga gctgcagatg aagctggaga 360
agcttcgaga gaaggagcgt aagaaggaa ccaagcggaa gatctccagc ctgtccttca 420
ccctggagga ggaagaagag ggaggcgagg aggaagagga gccggccatg tatgaggagg 480
agatggaaag ggaagagatc accacgaaga agagaaaact ggggaagaac ccagacgttg 540
acacaagctt cttgcctgat cgagaccgtg agnaggagga gaatcggctt cgggaagagc 600
tgccgcagga gtgggaagcc aagcaggaga agatcaagag tgaggagatc gagatcacct 660
tcagctactg ggatggctct gggcaccggc ggacagtcaa gatgagaaag ggcaacacca 720
tgcagcagtt cctgcagaag gcgctcgaga tccttcggaa agacttcagt gagctgaggt 780
ccgcagggkt ggagcagctc atgtacatca aggaggactt gatcatccct caccatcaca 840
gcttctacga cttcatcgtc accaaggcac gggggagagag tggaccactc ttcaactttg 900
atgttcatga cgatgtgcgg ttgctcagtg acgccactgt ggagaaggat gagtcccattg 960
caggcaagggt ggtgctgagg agctggtagc agaagaacaa gcacatcttt cccgccagcc 1020
gctgggaacc ctacgaccct gaaaagaagt gggacaagta cacgatccgc tgagcatcca 1080
ggaggctgcg cggccccggc tcctcagctc cctcagtggt ccccggtgtg tcaccgggac 1140
tccaggcacc cgctcccctg cgaccatgcc aggcacgctg ggaggaggac ggcagctgct 1200
cgtgtcctgc ccctgccaca tcagtgactg ctttattctt ttccaataaa gaagtgcacg 1260
tgtcagagct ggagcgccgt cattgtgaga aaaaaaaaaa gaggggnaag aaaaaaaaaa 1320
agggngg
```

<210> 30

<211> 709

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (696)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (701)

<223> n equals a,t,g, or c

<400> 30

```

aattcccggg ttcgaccac gcgtccggaa aactgcagct tccttctcac cttgaagaat 60
aatcctagaa aactcacaaa atgtgtgatg cttttgtagg tacctggaaa cttgtctcca 120
gtgaaaactt tgatgattat atgaaagaag taggagtggg ctttgccacc aggaaagtgg 180
ctggcatggc caaacctaac atgatcatca gtgtgaatgg ggatgtgatc accattaaat 240
ctgaaagtac ctttaaaaat actgagattt ccttcatact gggccaggaa ttgacgaag 300
cactgcagat gacaggaaaag tcaagagcac cataacctta gatgggggtg tcctggtaca 360
tgtgcagaaa tgggatggaa aatcaaccac cataaagaga aaacgagagg atgataaact 420
gggtggtggaa tgcgtcatga aaggcgtcac ttccacgaga gtttatgaga gagcataagc 480
caagggacgt tgacctggac tgaagtgcgc attgaactct acaacattct gtgggatata 540
ttgttcaaaa agatattggt gttttccatg atttagcaag caactaattt tctcccaagc 600
tgattttatt caatatgggt acgttgggtt aataaacttt ttttagattt aaaaaaaaaa 660
aaaaaaaaacc ycgggggggg gcccgggtacc caattngccc nttagggggg 709

```

<210> 31

<211> 1108

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (389)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (397)

<223> n equals a,t,g, or c

<400> 31

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tgcttatcct tgtgctgatg tttgtggtat ggatgaaacg ccgggataaa gaacgccagg 60
ccaaacaact tttaattgat ccagaagatg atgtaagaga taatatTTTA aaatatgatg 120
aagaaggtgg aggagaagaa gaccaggact atgacttgag ccagctgcag cagcctgaca 180
ctgtggagcc tgatgccatc aagcctgtgg gaatcygacg aatggatgaa agacccatcc 240
acgccgagcc ccagtatccg gtccgatctg cagccccaca ccctggagac attggggact 300
tcattaatga gggccttaaa gcggctgaca atgaccccac agctccacca tatgactccc 360
tgttagtgtt tgactatgaa ggcagtggnt ccactgntgg gtccttgagc tcccttaatt 420
cctcaagtag tgggtggtgag caggactatg attacctgaa cgactggggg ccacggttca 480
agaaacttgc tgacatgtat ggtggagggtg atgactgaac ttcaggggtga acttggtttt 540
tggaacaagta caaacaattt caactgatat tccccaaaag cattcagaag ctaggcttta 600
actttgtagt ctactagcac agtgcttgct ggaggctttg gcataggctg caaaccaatt 660
tgggctcaga gggaaatatca gtgatccata ctgtttgtaa aaacactgag ctcagttaca 720
cttgaatttt acagtacaga agcactggga ttttatgtgc ctttttgtac ctttttcaga 780
ttggaattag ttttctgttt aaggctttta tgggtactgat ttctgaaacg ataagtaaaa 840
gacaaaatat tttgtggtgg gagcagtaag ttaaaccatg atatgcttca acacgctttt 900
gttacattgc atttgctttt attaaaatac aaaattaaac aaamaaaaaa actcatggag 960
cgattttatt atcttggggg atgagaccat gagattggaa aatgtacatt acttctagtt 1020
ttagacttta gtttgttttt tttttttttt cactaaaatc ttaaaactta ctcagctggt 1080
tgcaataaaa gggagttttc atatcacc 1108

```

<210> 32

<211> 526

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (502)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (524)

<223> n equals a,t,g, or c

<400> 32

```

gaatttttca ttatgttgct tttgaaattt gatgcattcc tcccatttac tttattattg 60
tacacattta acacacagta gcaaattttg aacgatgtga ttgatataac ctaacaaatc 120
tgagccagtt attattagag ttgcagaata gaaacttgaa gtgctaaatg gaataatcca 180
aaggaaaattt tttaaatgca ggttctagct gaaaaattca actataagaa aattgtattt 240
atataacatt tactattttt gaagactagt gagatttctg taataatttt aattctttta 300
aaagtgaag cttgttgtaa agatattttc tttttgttat tagaaggaaa tacaagaga 360
aaaatttctt tctttcatgg ggcatttgat aatttcagtc ttgacgatt tgtaagccta 420
gaatatacta agctgaataa cagctctttg gcctcagaat tttccagtag ccagtawttc 480
yggattaact aagttgaaa cncytattag gaacctccag tggnga 526

```

<210> 33

<211> 555

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (494)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (521)

<223> n equals a,t,g, or c

<400> 33

```

ccggaccctg caccagcga ctgggccccg cgcgcgccct ccgcgagggt ggaggcggcg 60
gctgtgtgcg cagggcccg caccggactg ggaccctggc gtccctccag gccttgccctc 120
ctgcgggags acagtttggc ttcacttctc tgacccagc ctcggccgta aagtgaaga 180
gaccggacca gcttcagctt tcggactctg gttcttgat cgtgtcctct cccctcgcc 240
gccctcttcc cccaatctga gccattkcag gcctctgcct gckgccccct ctctcctcgg 300
gatcggttcc ccagagccac catctctga gcctcccacc ccgctgcctg ggccctgtgg 360
ttgctgggccc tcccacctca aggaggggaa ggttgtagag cccgaaccgg tggagcaatg 420
ccctgtctgg cctccaaaac caaaataaaa ctgggtcact ttacaaaaaa aaaaaaaaaa 480
aaggccccgg gaanaccgga ccggtacctg caggcgtacc ngtttcccta tagtgagttg 540
tattagcgtt gcata 555

```

<210> 34  
 <211> 347  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (288)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (328)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (335)  
 <223> n equals a,t,g, or c

<400> 34  
 gggtcgaccc acgcgtccgg accgcgcggc tagtggtgtg aggatctgag ccccggtggtg 60  
 gggggtggag gcggctcctg cratctaaag ggacttgaga ctctcaccgg ccgcgcgcca 120  
 tgagggccct gtgggtgctg ggcctctcct gctcctgct gaccttcggg tcggtccgar 180  
 ctgaygatga agtcgatgtg gatggtacag tggagagga tctgggtaaa agtagagaag 240  
 gttcaaggac agatgatgaa gtagtacaga gagaggaaga agctattnca gttggatgga 300  
 ttaaatgcat cccaaataag agaacttnag agagnaagtc cagaaaa 347

<210> 35  
 <211> 750  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (701)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (731)  
 <223> n equals a,t,g, or c

<400> 35  
 ggggtggcttc cttgtggttc ctcagtgggtg cctgcaaccc ctggttcacc tccttccagg 60  
 ttctggctcc ttccagccat ggctctcaga gtccttctgt taacagcctt gaccttatgt 120  
 catgggttca acttgacac tgaacacgca atgaccttc aagagaacgc aaggggcttc 180  
 gggcagagcg tgggtccagct tcagggatcc aggggtggtg ttggagcccc ccaggagata 240  
 gtggctgccca accaaagggg cagcctctac cagtgcgact acagcacagg ctcatgcgag 300  
 cccatccacc tgcaggtccc cgtggaggcc gtgaacatgt ccctgggcct gtccctggca 360  
 gccaccacca gccccctca gctgctggcc tgtggtccca ccgtgcacca gacttgacgt 420

```

gagaacacgt atgtgaaagg gctctgcttc ctgtttggat ccaacctacg gcagcagccc 480
cagaagttcc cagaggccct ccgagggtgt cctcaagarg atagtacat tgccttcttg 540
attgatggct ctggtagcat catcccacat gactttcggc ggatgaagga rtttgtctca 600
actgtgatgg agcaattaaa aaagtccaaa accttggtct ctttgatgca gtactctgaa 660
gaattccgga ttacttttac ttcaaagagt tccagaacaa ncctaaccce agatcactgg 720
tgaagccaat nacgcagctg cttggggcgg 750

```

<210> 36

<211> 1291

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (298)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (695)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (795)

<223> n equals a,t,g, or c

<400> 36

```

aagaaaaatg tactacgcct gtcctgtang aagctgaaga tttttgcaat gcccattgag 60
gatatcaaga tgatcctgaa aatggtgcag ctggactcta ttgaagattt gggaagtgc 120
ttgtacctgg aagctaccca ccttggcgaa attttctcct tacctgggcc agatgattaa 180
tctgcgtaga ctctctctct cccacatcca tgcattctcc tacatttccc cggagaagga 240
agagcagtat atcgcccagt tcacctctca gtccctcagt ctgcagtgcc tgcagctnct 300
ctatgtggac tctttatatt tccttagagg ccgcctggat cagttgctca ggcacgtgat 360
gaaccctctg gaaaccctct caataactaa ctgccggctt tcggaagggg atgtgatgca 420
tctgtcccag agtcccagcg tcagtcagct aagtgtcctg agtctaagtg gggtcattgt 480
gaccgatgta agtcccagcg ccctccaagc tctgctggag agagcctctg ccaccctcca 540
ggacctggtc tttgatgagt gtgggatcac ggatgatcag ctccctgccc tctgccttc 600
cctgagccac tgctcccagc ttacaacctt aagcttctac gggaattcca tctccatatt 660
tgcccttgca agtctcctgc agcacctcat cgggntgagc aatctgaccc acgtgctgta 720
tctgtcccc ctggagagtt atgaggacat ccatggtamc ctccamctgg agagggttgc 780
atctgcatgc caggntcagg gaggttgctgt gtgattggg gcggcccagc atgggttctg 840
cttagtgggc aaccctctgc ctactgttg ggacagaacc ttctatgacc cggagcccat 900
cctgtgcccc tgtttcattg ctaatarctg ggtgcacata tcaaatgctt cattctgcat 960
acttgacac taaagccagg atgtgcatgc atcttgaaag aacaaagcag ccacagtttc 1020
agacaaatgt tcagtgtgag tgaggaaaac atgttcagtg aggaaaaaac attcagacaa 1080

```

```

atgttcagtg aggaaaaaaa ggggagttgg ggataggcag atgttgactt grggagktaa 1140
tgtgatcttt ggggagatac atcttataga gttagaaaata gaatctgaat ttctaaaggg 1200
agawtctggc ttgggaagta catgtaggag ttaatccctg tgtagactgt tgtaaagaaa 1260
ctgttgaaaa taaagagaag caatgtgaag c                               1291

```

```

<210> 37
<211> 1535
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (1413)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (1526)
<223> n equals a,t,g, or c

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<400> 37
ggcacgaggg tacgcagagc ttcgtcttcc agcgcgaaga gatagcgagc ttggcgcggc 60
agtacgctgg gctggaccac gagctggcct tctctcgtct gatcgtggag ctgcggcggc 120
tgcacccagg ccacgtgctg cccgacgagg agctgcagtg ggtgttcgtg aatgcgggtg 180
gctggatggg cgccatgtgc cttctgcacg cctcgctgtc cgagtatgtg ctgctcttcg 240
gcaccgcctt gggctccgcg ggccactcgg ggcgctactg ggctgagatc tcggatacca 300
tcatctctgg caccctccac cagtggagag agggcaccac caaaagtga gtccttctacc 360
caggggagac ggtagtacac ggcctgtgtg aggcaacagc tgtggagtgg gggccaaaca 420
catggatggt ggagtacggc cggggcgctc tcccattccac cctggccttc gcgctggccg 480
acactgtctt cagcaccacg gacttccctc ccctcttcta tactcttcgc tcctatgtc 540
ggggcctccg gcttgagctc accacctacc tctttggcca ggacccttga ccagccaggc 600
ctgaaggaag acctgcggat ggacaggagc gggcaggccc gcacatatcc acttgctgga 660
gcccattgtt acagacaggg acatacacca tgcagatcct gaggctcctg tgatagagca 720
gggatatacca tgcttatgta tccaaacaca gagaccatg ggaacaaatg agacacatat 780
agatactgag acctgtgtgt acagtaggac catgcactca caccatctg gagagggagc 840
ccccgttata ccaagggagc cagttgtgtt cagacacaca catcacagct tgactcacta 900
actgaggcct ttccatagct ccacagcttc ccacctcctc cccaccaaac cggggttcta 960
gagttaagga tgggggaggg tattatactg cctcagctg actcctcaac ccagcagcaa 1020
tttgagggga tgagggggaa gaggagctgc cttttggagg ccccttccac ctgcagctat 1080
gatgcccttc ccctctctcc ctgtcctcac catatgcctt atccccattc tactccctg 1140
ctatgcaagt gccctgttgg cttgtcccca acccctcag caacaaagct cagctgggga 1200
acgagagtaa tttgaagaat gcttgaagtc agcgtcttcc attccagaaa gacccccatt 1260
cttcctttgg gggatgatg tggaagctgg tttcagccca ggaccacca ctgaggagag 1320
gatctagaca ggtgggccta attccaaggg gcccttctg gcctggagaa ggccttttac 1380
acacacacaa cacatacaca cacacacaca canacacata tcacagtttt cacacagccc 1440
ctgctgcatt ctctgtccat ctgtctgttt ctattaataa agatttggtg atctgttcca 1500
aaaaaaaaaa aaaaaaaaaa aaaaangggg gggct                               1535

```

```

<210> 38
<211> 295
<212> DNA

```



<213> Homo sapiens

<400> 38

```
ctgggtcacac tattacatgc catgcaggca cgcgataaaa cgctggggct ggcaacactg 60
tgcattggcg gcggtcaggg aattgcatg gtgattgaac ggttgaatta atcaataaaa 120
acacccgata gcgaaagtta tcgggtgttt tcttgaacat cgacggcgaa ggtaacccca 180
ttaatcacca gtcaaaactt ttcaccagcg tcaactcgcca gcattacgca tcggtacaat 240
aaatgtttcc tgtttctcat tgaccgatcc ttcacggtg atcagcgtca ttggg      295
```

<210> 39

<211> 1300

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (641)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1297)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1298)

<223> n equals a,t,g, or c

<400> 39

```
gcggactggc agggggcagg gaagctcaaa gatctggggg gctgccagga aaaagcaaat 60
tctggaagtt aatgggtttt agtgattttt aaatccttgc tggcggagag gccgcctct 120
ccccggtatc agcgcttcct cattctttga atccgcggct ccgcggtctt cggcgctaga 180
ccagccggag gaagcctgtt tgcaatttaa gcgggctgtg aacgcccagg gccggcgggg 240
gcggggccga ggcggggccat tttraataaa gaggcgtgcc ttccaggcag gctctataag 300
traccgccgc ggcgagcgtg cgcgckttgc aggtcactgt agcgggactt cttttggttt 360
tctttctctt tggggcacct ctggactcac tccccagcat gaaggcgtg agcccggtgc 420
gcggctgcta cgaggcggtg tgctgcctgt cggaacgcag tctggccatc gcccggggcc 480
gagggaaggg cccggcagct gaggagccgc tgagcttgct ggacgacatg aaccactgct 540
actcccgcct gcggraactg gtacccggag tcccagagag cactcagctt agccaggtgg 600
aaatcctaca gcgcgtcatc gactacattc tcgacctgca ngtagtcctg gccgagccag 660
cccctggacc ccctgatggc cccacattc ccatccagac agccgagctc gctccggaac 720
ttgtcatctc caacgacaaa aggagctttt gccactgact cggccgtgtc ctgacacctc 780
cagaacgcag gtgctggcgc ccgttctgcc tgggaccccg ggaacctctc ctgccggaag 840
ccggacggca gggatgggcc ccaacttcgc cctgcccact tgacttcacc aaatcccttc 900
ctggagacta aacctggtgc tcaggagcga aggactgtga acttggtggc tgaagagcca 960
gagctagctc tggccaccag ctgggcgacg tcaccctgct cccacccac ccccaagttc 1020
taaggtctyt tcagagcgtg gaggtgtgga aggagtggct gctctccaaa ctatgccaaag 1080
gcggcggcag agctggtctt ctggtctcct tgagaaaagg ttctgttgcc ctgatttatg 1140
aactctataa tagagtatat aggttttgta ctttttttac aggaaggtga ctttctgtaa 1200
caatgcgatg tatattaaac tttttataaa agttaacatt ttgcataata aacgattttt 1260
```

aaacaaaaaa aaaaaaaaaa aagggggggcc gccctanngg 1300

<210> 40

<211> 215

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (210)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (213)

<223> n equals a,t,g, or c

<400> 40

cagaaacaga agttcacact aacagagtat gggtttaatt ttcctttgaa tgaaaaggat 60  
agaaagataa aattgtgtat tgtaacatg taaataaaat tggagctaata ttgaaactag 120  
cttctcaata acttcattctt tctagagact cattacctgt gggcttgctm aacctggact 180  
atttggccaa atwggttgga taaaaaaggn atntt 215

<210> 41

<211> 474

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (85)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (216)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (374)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (449)

<223> n equals a,t,g, or c

<400> 41

tcgaccacg cgctccggag actacggtaa aggcgcgcgc acgcagccaa catgccggtg 60  
gcccggagct gggtttgctg caagnctacg tgaccctctg gaggccttt gagaagtcgc 120

```

ggctcgacca agagctgaag ctgataggcg agtacgggct ccggaacaaa cgtgaggtgt 180
ggaggggtcaa gttcaccctg gccaaatcc gcaagnccgc gcgggarctg ctgacgctgg 240
acgagaagga cccgcggcgc ctgtttgagg gcaatgcctt gcttcggcga ctggtgcgca 300
ttggagtgtc ggacgagggc aagatgaagc tggattatat cctgggtctg aagatgagga 360
ttcttgaga grontctgca gaccaggtt tttcaagctg gggttgcca atccatccac 420
catgccctgt gctgatccgc caggccacnc aggtccgaaa gcaagtgggtg aaca      474

```

<210> 42

<211> 425

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (375)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (403)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (418)

<223> n equals a,t,g, or c

<400> 42

```

cctgccttc gatgaatatg ggcgcccttt cctcatcatc aaggatcagg atcgcaagtc 60
tcgtcttatg ggactggagc tctcaagtct catatcatgg cggcaaaggc tgtagcaaat 120
accatgagaa catcacttgg accaaatgga cttgataaaa tgatggtgga caaggacggc 180
gacgtgacgg tcacaaacga cggtgccacg attctgagca tgatggatgt cgatcaccag 240
attgccaagc tgatggtgga gctgtccaaa tcccaggatg atgaaatcgg agatggggac 300
cacgggggtg gttgtcctg cgggcgcctt gctggaagga ggccgagcag ctgctggacc 360
gcggcattca mccgntcagg atcgccgacg gttacgagca ggntgcccgc attggccntc 420
gagca      425

```

<210> 43

<211> 1187

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (33)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (41)

<223> n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1149)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1156)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1160)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 43

```

tgtgggaact ggtgggtccc ccgggctggc agnaattggg nacgcgggtc gcggttcttg 60
tttgtggatc gctgtgatcg tcacttgaca atgcagatct tcgtgaagac tctgactggt 120
aagaccatca ccctcgaggt tgagcccagt gacaccatcg agaattgtcaa ggcaaagatc 180
caagataagg aaggcatccc tcctgaccag cagaggctga tctttgctgg aaaacagctg 240
gaagatggkc gcacctgtc tgactacaac atccagaaag agtccaccyt gcacctggtr 300
ctccgtctca gaggtgggat gcaaattctt gtgaagacac tctctggcaa gaccatcacc 360
cttgaggtcg agcccagtga cacyatcgag aacgtcaaag caaagatcca rgacaaggaa 420
ggcatttcct ctgaccagca gaggttgatc tttgccggaa agcagctgga agatgggcgc 480
accctgtctg actacaacat ccagaaagag tctaccctgc acctggtgct ccgtctcaga 540
ggtgggatgc agatcttcgt gaagaccctg actggttaaga ccatcacyst cgargtggag 600
ccgagtga ca cattgagaa tgtcaaggca aagatccaag acaagggaagg catccctcct 660
gaccagcaga ggttgatctt tgctgggaaa cagctggaag atggacgcac cctgtctgac 720
tacaacatcc agaaagagtc caccctgcac ctggtgctcc gtcttagagg tgggatgcag 780
atcttcgtga agaccctgac tggtaagacc atcactctcg aagtggagcc gagtgcacac 840
attgagaatg tcaaggcaaa gatccaagac aaggaaggca tccctcctga ccagcagagg 900
ttgatctttg ctgggaaaca gctggaagat ggacgcaccc tgtctgacta caacatccag 960
aaagagtcca cctcgacact ggtgctccgt ctyagaggtg ggatgcagat cttcgtgaag 1020
accctgactg gtaagacat cacyctcgaa gtggagccga gtgacacat ygagaatgtc 1080
aaggcaagat ccagacaagg aaggcatcct cctgaccagc agargttgat tttgctggga 1140
aaarcttgna aatggncgan cccttttgat taaaatcccg aaagtcc 1187

```

&lt;210&gt; 44

&lt;211&gt; 515

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (217)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (465)

<223> n equals a,t,g, or c

<400> 44

```

ctgcagtacc gtccgaattc ccgggtcgac ccacgcgtcc ggtttgagcc gtcgtgcttc 60
accggtctac ctcgctagca tgtcgggccc cggaagact ggcggaagg cccgcgcaa 120
ggccaagtgc cgctcgtcgc gcgccggcct ccagttccca gtgggcccgtg tacaccggct 180
gctgcggaag ggccactacg ccgagcgcgt tggcgcnngc rcgccagtgt acctggcggc 240
agtgtgtgag tacctcaccg ctgagatcct ggagctggcg ggcaatgcgg cccgcgacaa 300
caagaagacg cgaatcatcc cccgccacct gcagctggcc atccgcaacg acgaggagct 360
caacaagctg ctggggcgcg tgacgatcgc ccagggaagg cgtctgccc aacatccagg 420
ccgtgttgy tgcccaagaa gaccagcgcc accgtggggc cgaangccct tcggggggca 480
agaaagggca accaaggctt cccaaggagt actaa 515

```

<210> 45

<211> 1499

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1476)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1492)

<223> n equals a,t,g, or c

<400> 45

```

gcgagtgcgc gctcctcctc gcccgcgcgt aggtccatcc cggcccagcc accatgtcca 60
tccacttcag ctccccggca tccgcgaggt caccattaac cagagcctgc tggccccgct 120
gcggctggac gccgacccct cctccagcgc ggtgcgccag gaggagagcg agcagatcaa 180
gacctcaac aacaagtgtg cctccttcac cgacaaggtg cggtttcttg agcagcagaa 240
caagctgctg gagaccaagt ggacgctgct gcaggagcag aagtcggcca agagcagccg 300
cctccagac atctttgagg cccagattgc tggccttcgg ggtcagcttg aggcactgca 360
ggtggatggg ggccgccttg aggcggagct gcggagcatg caggatgttg tggaggactt 420
caagaataag tacgaagatg aaattaaccg ccgcacagct gctgagaatg agtttgtggt 480
gctgaagaag gatgtggatg ctgcctacat gagcaagggt gagctggagg ccaagggtga 540
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gcagtcccag atctccgaca catctgtggt gctgtccatg gacaacagtc gctccctgga 660
cctggacggc atcatcgctg aggtcaaggc rcagtatgag gagatggcca aatgcagccg 720
ggctgaggct gaagcctggt accagaccaa gtttgagacc ctccaggccc aggctgggaa 780
gcatggggac gacctccgga ataccggaa tgagatttca gagatgaacc gggccatcca 840
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gggcagcaat gccctgagct tctccagcag tgcgggtcct gggctcctga aggettattc 1260
catccggacc gcatccgcca gtcgcaggag tgcccgcgac tgagccgcct cccaccactc 1320

```

cactcctcca gccaccaccc acaatcacaa gaagattccc acccctgcct cccatgcctg 1380  
gtcccaagac agtgagacag tctggaaagt gatgtcagaa tagcttccaa taaagcagcs 1440  
tcattctgag gcctgagtga aaaaaaaaaa aaaaanaaaa aaaaaaattt tngggggggg 1499

<210> 46  
<211> 393  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (167)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (178)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (219)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (359)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (372)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (378)  
<223> n equals a,t,g, or c

<400> 46  
tcgacccacg cgtccggcag cctttctgag ggagcggttg tgtgttcgcc atcttaggaa 60  
gaagatgttc tcgtccgtgg cgcattctggc cgggcggaacc ccttcaacgc gccccacctg 120  
cagctggtac acgatggcct cacgggcacc gaagcagccc cgtgggnacc cccgggcneg 180  
ccccgaacgt tcccgaatc tggcagcagc cgctgtggna agagtacagt tgcgaatatg 240  
gctccatgaa gttttatgca ctgtgtggct ttggtggggg ctttaagttgt ggtctgacac 300  
acactgctgt cgttcctctg gatcttagtga aatgccgaat gcargtggac ccccgagaant 360  
acaagggcak wnttaatngg attctcatta aca 393

<210> 47  
<211> 238  
<212> DNA

<213> Homo sapiens

<400> 47

```
cggatcccg ctcctgcac cagtcgccat tcgggaggcc gctgcgctgc agggcctcgc 60
ggaccgccg cgaccgcgag ccgggccctc cgcgcggtcc atcgcccact ggacgccgcc 120
cgcggccgga ccggttcaac ttctcatctt tggtcttctt catatactat aggtgtttg 180
ctgtggttta gtcaaaaagc catgtagaat gcctgccttt tgaagaccac ttttaagg 238
```

<210> 48

<211> 939

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (937)

<223> n equals a,t,g, or c

<400> 48

```
gccaccatct tggaacggga ggcgagcag agtcgactgg gagcgaccga gcgggccgcc 60
gccgccgcca tgaaccccg atagactac ctgtttaagc tgcttttgat tggcgactca 120
ggcgtgggca agtcatgcct gtcctgcgg tttgctgatg acacgtacac agagagctac 180
atcagcacca tcggggtgga cttcaagatc cgaaccatcg agctggatgg caaaactatc 240
aaacttcaga tctgggacac agcgggccag gaacggttcc ggaccatcac ttccagctac 300
taccgggggg ctcatggcat catcgtggtg tatgacgtca ctgaccagga atcctacgcc 360
aacgtgaagc agtggctgca ggagattgac cgctatgcca gcgagaacgt caataagctc 420
ctggtgggca acaagagcga ctcaccacc aagaaggtgg tggacaacac cacagccaag 480
gagtttgacg actctctggg catccccttc ttggagacga gcgccaagaa tgccaccaat 540
gtcgagcagg cgttcatgac catggctgct gaaatcaaaa agcggatggg gcctggagca 600
gcctctgggg gcgagcggcc caatctcaag atcgacagca cccctgtaaa gccggctggc 660
ggtggctggt gctagsaggg gcacatggag tgggacagga gggggcacct tctccagatg 720
atgtccctgg agggggcagg aggtacctcc ctctccctct cctggggcat ttgagctctg 780
ggctttgggg tgcctgggc tccccatctc ctcttgccc atctgcctgc tgccctgagc 840
cccggttctk tmaggttccc taaaggagga cactcagggc ctgtggcagg cagggcgagg 900
gctgcttggt ctgttgctc taagtgaatt tccaaangc 939
```

<210> 49

<211> 1771

<212> DNA

<213> Homo sapiens

<400> 49

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tttgacagag actccaacca gctgtggaac atcagcgccg tcccttcctg gtccaaagt 120
aaccagggtc tcatccgcat gtataaggcc gagtgcctgg agaagttccc tgtgatccag 180
cacttcaagt tcgggagcct gctgcccatc catcctgtca cgtcgggcta ggaggggcca 240
agccgaagag ccacccaggc cacagttcct gtgcctgcct tccccacccc agcagtggcc 300
cctccccatc ccctccctct gtctgtcccg tttgatgaga ggctgtttac tgggggtggg 360
tggcgagatg ggcttgaggg ggctcagagc ataaggcttc agggcccaag ttgggagaag 420
tgaccaaagt gtagccagtt ttctgagttc ccgtgtgcta gactggccag aagagaggg 480
ctgggggcctg gtcactcggc cactctctcc tgtttctggc ctcttctccc ttcactcccc 540
```

```

tccagtctgg ttttgagagc aggggctgtt ctgcagcacc kcagggaagg gaggagagat 600
acctgctgct tccattgctt ttcccttcct ggagtcgatg cctttctaag gggtggagct 660
gctccttgca ggggcgggtc agtttcccag gccatgccgg ggtggccatc tatgctaggg 720
ctggaagctg aggttgcccg ccagctgtgg gctgggtggg ggtgggtggg gtcgggtggg 780
ggagaggcct tagctgtcct ggctggtgcc cctcccaggc tccttttcac cctgccccct 840
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agcacagggg ctcagcctgg gatccggtga tggctctggc agaggctggg tcaggagtcc 1560
caaaggctcag tgacagtttc tcagaagagg ccagcgtcc acctctctcc cagggccaga 1620
cacccttccc tggctcccc atccccctat ggctcccagc cccttgacc ctcattgctg 1680
ttcagattaa agcctctgtt ttgcacctgt aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1740
aaaaaaaaaa aaaaaaaaaa aaaaaaattt t 1771

```

<210> 50

<211> 397

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (201)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (207)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (352)

<223> n equals a,t,g, or c

<400> 50

```

gggtcgaccc acgcgtccgc tcgctccggg atcgcccgcg ctagagacgc atagcgtctt 60
aatcgctcgc acgcaccggc cctcgctcgc tcgcccgtcc gtgccgccgc cgcccagccc 120
accgccaccc tttgcagcca tgtccaccag gtcygtgtcc tcgtcytctt accgcagatg 180
ttcggcggcc ccggcacccg nagcggncgg agctccacgc gcataacgtg accagtccac 240
ccgcacctac agcctgggca gcgcctgcgc ccagcacca gccgcagcct ctamamctcg 300
tccccgggcg gcgcgtatgt tcacggctcc ttccgcggtg cgcctgcgga anatgttgcc 360
ccggcgctgc gcttgctggc aggatccgtt ggaattt 397

```



<210> 51  
<211> 1635  
<212> DNA  
<213> Homo sapiens  
  
<220>  
<221> misc feature  
<222> (1422)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1617)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1620)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1629)  
<223> n equals a,t,g, or c

<400> 51  
gcccacgcgt ccgcccacgc gtccgcccac gcgtccgcct ctccagccct tctcctgtgt 60  
gcctgcctcc tgccgcgcgc accatgacca cctccatccg ccagttcacc tcctccagct 120  
ccatcaaggc ctctcccgcc ctggggggcg gctcgtcccg cacctcctgc cggctgtctg 180  
gcggcctggg tgccggctcc tgcaaggctgg gatctgtctg cggcctgggc agcaccctcg 240  
ggggtagcag ctactccagc tgctacagct ttggctcttg tgggtggctat ggcagcagct 300  
ttgggggtgt tgatgggctg ctggctggag gtgagaaggc caccatgcag aacctcaatg 360  
accgcctggc ctctacctg gacaagggtgc gtgccctgga ggaggccaac actgagctgg 420  
agggtgaagat ccgtgactgg taccagaggc agggcccggg gcccgcccg gactacagcc 480  
agtactacag gacaattgag gagctgcaga acaagatcct cacagccacc gtggacaatg 540  
ccaacatcct gctacagatt gacaatgccc gtctggctgc tgatgacttc cgcaccaagt 600  
ttgagacaga gcaggccctg cgcctgagtg tggaggccga catcaatggc ctgcgcaggg 660  
tgctggatga gctgaccctg gccagagccg acctggagat gcagattgag aacctcaagg 720  
aggagctggc ctacctgaag aagaaccacg aggaggagat gaacgccctg cgaggccagg 780  
tgggtggtga gatcaatgtg gagatggacg ctgccccagg cgtggacctg agccgcatcc 840  
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tgcagagtgg caagagttag atctcggagc tccggcgcac catgcaggcc ttggagatag 1020  
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tgaagacgcg gctggagcag gagattgcc aaccgcccg cctgctggag ggagaggatg 1260  
cccacctgac tcagtacaag aaagaaccgg tgaccaccgg tcaggtgcgt accattgtgg 1320  
aagaggcca ggatggcaag gtcattctct cccgcgagca ggtccaccag accaccgcgt 1380  
gaggactcag ctaccccgcc cggccaccca ggaggcagg angcagccgc cccatctgcc 1440  
ccacagtctc cggcctctcc agcctcagcc cctgcttca gtcccttccc catgcttctc 1500

```

tgcctgatga caataaagct tgttgactca gctaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1560
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaanttn 1620
ggggggggnc ccccc 1635

```

<210> 52

<211> 1780

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1780)

<223> n equals a,t,g, or c

<400> 52

```

ccgccgccgc cgccgccgcc ggagctctgt agtatggcat cgaggagaat ggagaccaa 60
cctgtgataa cctgtctcaa aaccctcctc atcatctact ccttcgtctt ctggatcaact 120
ggggtgatcc tgctggctgt tggagtctgg ggcaactta ctctgggcac ctatatctcc 180
cttattgccg agaactccac aaatgctccc tatgtgctca tcggaactgg caccactatt 240
gttgtctttg gcctgtttgg atgctttgct acatgtcgtg gtagcccatg gatgctgaaa 300
ctgtatgccca tgtttctgtc cctgggtgtc ctggctgagc tcgtagctgg catttcaggg 360
tttgtgtttc gtcattgagat caaggacacc ttcctgagga cttacacgga cgctatgcag 420
acttacaatg gcaatgatga gaggagccgg gcagtggacc atgtgcagcg casctgagct 480
gctgtggtgt gcagaactac accaactgga gcaccagccc ctacttcctg gagcatggca 540
tccccccag ctgctgcatg aacgaaactg attgtaatcc ccaggatcta cacaactctga 600
ctgtggccgc caccaaagt aaccagaagg gttgttatga tctggtaact agtttcatgg 660
agactaacat gggaatcatc gctggagtgg cgtttggaat cgcattctcc cagttaattg 720
gcatgctgct ggccctgctg ctgtcccggg tcatcacggc caatcagtat gagatggtgt 780
aaggagaagt ctttcaagaa tgacggaata agagacctgt tttaaaaagg aactgcagca 840
atctttgaaa gacttccaaa gaatgttaga gcacagtaca taatacactt gccctgctcc 900
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ttcttgtgaa ggccatgata ttttgtttt ccccaattaa ttgctattgt gttattttac 1560
tacttctctc tgtattttt cttgcattga cattatagac attgaggacc tcatccaaac 1620
aatttaaaaa tgagtgtgaa gggggaacaa gtcaaaatat ttttaaaaga tcttcaaaaa 1680
taatgcctct gtctagcatg ccaacaagaa tgcattgata ttgtgaacat ttgtgatata 1740
tgtattaata aatagagcaa ttacaagcaa aaaaaaatgn 1780

```

<210> 53

<211> 490

<212> DNA

<213> Homo sapiens

&lt;400&gt; 53

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aattcggcag agaattttca tgagtcgcct tcaaaactct cgtgtagggg tgacaatgtg 60
gggggggtgg ggatccagct tattctttta ttttcaagtc cattcttggg gctgggtggg 120
aggcaggaga ataccctcc ctaagccctt agtgtgtgcc gagcttgctt tgtgatgttg 180
gcaggggagg ggagacctgg gtggtgactg agttcccttt atcaaaccct tcaatgggca 240
caaaattgag tgcttgattt taggttttat tttttatga atgtccaaat ctgtgtttcc 300
ccctgccctc ccagactgtg tggccagttg aaagtgtctg gtttgtgttc atctctccct 360
catttctgga gcagggcctg agaccctgcc acatctccta tgctctgcat ccacgcctct 420
tttggacatt aaaggttgat tgatgcaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 480
aaaaaaaaaa                                         490

```

&lt;210&gt; 54

&lt;211&gt; 1944

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (466)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (634)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1308)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 54

```

acgggtacgga attcccgggt cgaccacgc gtccgacccc ggaccggag tcgcgagag 60
ctgggcagtg ttggccgctg gcggagcgtt ggggcagcat gaagtgcctg gtcacgggcg 120
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ccaggaaggg gtggccatca ctttctgcct caaggaattc cgggggctcc tgagctttgc 780
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```

```

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gaaggctgaa ccaagaacct gaagcctgta cccagggcc ttggactnag acgaagcccc 1320
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tgccctggct ggggcccggt gccgagactc ccaagcggst ctgtgcagaa gagctgccag 1860
gcagtgtctt agatgtraga cggaggccat ggcgagaatc cagctttgac ctttattcaa 1920
gagaccagat gggtttgccc cagg                                     1944

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<210> 55

<211> 994

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (896)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (971)

<223> n equals a,t,g, or c

<400> 55

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gaaggtagcg accgtcgccg gcagcgccgc gaaggcgtgc tcgggccagc ccttctctgc 180
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acaattcttc cgtccgctaa gtatggcggg cggcacacgg tgacctgat cccaggggat 300
ggcatcgggc cagagctcat gctgcatgtc aagtccgtct tcaggcacgc atgtgtacca 360
gtggactttg aagagggtgca cgtgagttcc aatgctgatg aagaggacat tcgcaatgcc 420
atcatggcca tccgccggaa ccgcgtggcc ctgaagggca acatcgaaac caaccataac 480
ctgccaccgt cgcacaaatc tcgaaacaac atccttcgca ccagcctgga cctctatgcc 540
aacgtcatcc actgtaagag ccttcaggc gtggtgacct ggcacaagga catagacatc 600
ctcattgtcc gggagaacac agagggcgag tacagcagcc tggagcatga gagtgtggcg 660
ggagtgggtg agagcctgaa gatcatcacc aaggccaagt ccctgcgcac tgccgagtat 720
gccttcaagc tggcgagga gagcgggcgc aagaaagtga cggccgtgca caaggccaac 780
atcatgaaac tggcgatgg gcttttcttc cagtgtgtga gggaggtggc agcccggtac 840
cctcagwtca ccttcgagaa catgattgtg gataacacca ccatgcagct ggtgtncggg 900
ccccagcagt ttgatgtcat ggtgatgccc aatctctatg gcaacatcgt caaacaatgt 960
ctgcgcggga ntggtcggg gcccagctt gttg                                     994

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<210> 56

<211> 328

<212> DNA  
<213> Homo sapiens  
  
<220>  
<221> misc feature  
<222> (123)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (156)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (170)  
<223> n equals a,t,g, or c

<400> 56  
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tanggcgcgg tggctcacgc ctgtaatccc cacacnttgg gaaggccgan gcaggcggat 180  
cacgaggtca gaagattgag accattcttg ctaacatggt gaaccccat ctctactaaa 240  
aatacaaaaa ttagtcaggc gcgatggcgg gcacatgtag taccagctac tcgggaggct 300  
gatgcagaag aataacttgg aacctggg 328

<210> 57  
<211> 1489  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (710)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1109)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1117)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1206)  
<223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (1211)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (1218)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (1264)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (1311)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (1446)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (1467)  
 <223> n equals a,t,g, or c

<400> 57  
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 cgaatggtat cacatgcaat attttaatgg agcaatggga gaggctcttt gaaatgggggt 180  
 ttgcatcttt ttgtaacatt ttgatttctc tgggtgcctta ttctacttg atgctggcac 240  
 tcacataccc acaagaagct gacacagaag tcagccttag gcgtggggac atatgggtga 300  
 tgtttgagca tgcagggggc atggggagtt tgggtgtcagt tgggtggagaa gggactagat 360  
 ggcattctctt agccgaggcc aacaggaact gcacaagtcc attatagtca aagttagcaa 420  
 ttttgatacg taaacacaaat acttcattct tcctcatctg agctttcctt ccttcttctt 480  
 tttctatctc tacctttctca taaagggtgct gctgctgctg ctaagggtgcc cggagtccag 540  
 aatgtccatt aatcactcag gcacgagcct ggcactgcc cgtcagcccc cagcatgacc 600  
 aaaccaggt ttctcttgct tggggctgag aactgtcaga tttttctcat caaaaatggt 660  
 ttccaaggaa tcagtggatt acagtttttc tgcattgaaa atgcacttn aaaaaataaa 720  
 ttaaagctcc agactgttta aaatatacag agggagcagg ggaaagttaa gcatgtgcta 780  
 gtgtctgaac ccagttcagt ttatctccag ttgaaacgat atacactata ttatgtataa 840  
 atgtatacac acttctctata tgtatccaca tatatatagt gtatatatta tacatgtata 900  
 ggtgtgtata tgtgcatata tacacacatg cacataacaa aatcagatgc tcattacaaa 960  
 tccagatgct cattacaâaa ccagatgcta cacaacacgc agcagaggaa acaaggttgg 1020  
 actcttgcaa cagatcacaa aaaataaaaa cagctacttg cagtgacttt ggtcatttct 1080  
 gtatgttcat aaagaatgga tttgtaacna ggaaaanaag gaccagtgtt agtgaaaagg 1140  
 gaagatgggg cgaaccatct tgatccgatg cgaatccgta atggtctata tacatttcat 1200

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cagtantcat ntagtcangt gattgattca gttctgctat gaaacattgt aacacgtacc 1260
cacnactgac aactactcgt gagcgttcat taggagtgac ctaactttgc ntgcctgctc 1320
atgggacgag ctcccttaggt ggagataccg gggaatagag aaagatgcac gtctctgcgt 1380
tgtcgcgtgc tttgaggggc ggtctttacc ttccgtgttg gagtcctccc tgagtcgggc 1440
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<210> 58

<211> 1283

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (38)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (550)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1242)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1250)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1260)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1263)

<223> n equals a,t,g, or c

<400> 58

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ctgtggagaa aatgcttgta gtaacatatt ttaaattgtac taacaagacc agtcatgggm 180
aaatgtttct gagacaaatc tctagtttat gattttaaac agtacgtttt cttacgtgac 240
gaaaacaaaa agtgtgttaa ttgttccca gtggttgaa ttatttgcca acaattttac 300
tgtttctctt catctgttta taggatttct ctgcctcttc caaacttttc ctccctgaac 360
ctgaggggta agcattttat ttcccttttag gaaaaacgct agctgcttgt aacctgtg 420
tttatgtcaa agcattcatt ttttttagga tatctgaaaa aatgccatat aagaaaaaam 480
tctataaaac atctatwatt ttcgaacca agtacactct tgcattctaw gctttaagtt 540

```

```

aaatgcaaan tcctttttcc ttcttcctgc tgcaagtact atctcatcct gatgctcaag 600
agtgtcaggg cctgggtttc caaacagaga ctaccctaaa attatttggc gagtagtact 660
ttacacaatt gcctctcccc cacaatatcat aattgtttca gtaaaatggg tacttggttt 720
ttccaagaaa aaactcgttt ttactcattt ttggcctgtt tgtttattta gaaactaatc 780
tggtattcact ccctctgggt gatacccact caaaaaggac acttctgatt aagacgggtg 840
aaactagaga tggacagggt atcaacgaaa cttctcagca tcacgatgac cttgaataaa 900
aattgcacac actcagtgcg gcaatatatt accagcaaga ataaaaaaga aatccatata 960
ttaaagaaac agctttcaag tgcctttctg cagtttttca ggagcgcaag atagatttgg 1020
aataggaata agctctagtt cttaacaacc gacactccta caagatttag aaaaaagttt 1080
acaacataat ctagtttaca gaaaaatctt gtgctagaat actttttaaa aggtattttg 1140
aataaccatta aaactgcttt tttttttcca gcaagtatcc aaccaacttg gttctgcttc 1200
aataaatctt tggaaaaact maaaaaaaaa aaaaaaaaaa mnggggggggn gcccggggtn 1260
ccnccggggg gcccaagttt tac 1283

```

&lt;210&gt; 59

&lt;211&gt; 740

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (696)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 59

```

agaaggagcg cggggaggac gtaccttgtg agatgcgagc cggccaacag cttgcaagca 60
tgctccgctg gacccgagcc tggaggctcc cgcgtgaggg actcggcccc cacggcccta 120
gcttcgcgag ggtgcctgtc gcaccagca gcagcagcg cggccgaggg ggcgccgagc 180
cgaggccgct tccgctttcc tacaggcttc tggacgggga ggcagccctc ccggccgctc 240
tctttttgca cgggctcttc ggcagcaaaa ctaacttcaa ctccatcgcc aagatcttgg 300
cccagcagac aggccgtagg tgctgacggg ggatgctcgt aaccacgggt acagccccc 360
cagcccagac atgagctacg agatcatgag ccaggacctg caggaccttc tgccccagct 420
gggcctggtg ccctgcgtcg tcgttgcca cagcatggga ggaaagacag ccatgctgct 480
ggcactacag aggccagagc tggtggaacg tctcattgct gtagatatca gccagtgga 540
aagcacaggt gtctccact ttgcaacctg tgtggcagcc atgagggcca tcaacatcgc 600
agataggctt gccccgctcc cgtgcccga aactggcgga tgaacagctc agttctgtca 660
tccaggacat ggccgtgcgg cacacttgct tcaatnaacc tggtagaggt agacgggcgt 720
tttcgtgttg gaggtggaa 740

```

&lt;210&gt; 60

&lt;211&gt; 1291

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (6)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature



&lt;222&gt; (7)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (147)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1211)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1283)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 60

```

actttnnccc ctcccccttt cctttcccgt ctcacgcgcc aggccgcttg cacatgcgca 60
ttaggtacaa agcctcgctc tttgtcccca tctgtcgttc acacgaactc aagccttttg 120
cattcggcag ccaatagaat ctaaganatg gcggaaaaat gattccgcct cgggagctaa 180
acttgattgg cagtttagct aaccaatcga gaacgccatt tgtamccctt ggcaggcamc 240
gagctccgtc gtctcgtttc cggcggtcgc gcgctctttt ctcgggacgg gagaggccgt 300
gtagcgtcgc cgttactccg aggagatacc agtcggtaga ggagaagtcg aggttagagg 360
gaactgggag gcactttgct gtctgcaatc gaagttgagg gtgcaaaaat gcagagtaat 420
aaaactttta acttgagaga gcaaaaccat actccaagaa agcatcatca acatcaccac 480
cagcagcagc accaccagca gcaacagcag cagccgccac caccgccaat acctgcaaat 540
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ccaggagaga agaccttcac ccaacgaagc cgtctttttg tgggaaatct tcctcccgac 660
atcactgagg aagaaatgag gaaactatth gagaaatatg gaaaggcagg cgaagtcttc 720
attcataagg ataaaggatt tggctttatc cgcttggaac cccgaaccct agcggagatt 780
gccaaagtgg agctggacaa tatgccactc cgtggaaagc agctgcgtgt gcgctttgcc 840
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gagcccatgg accagttaga tgatgaagag ggacttccag agaagctggt tataaaaaac 1140
cagcaatttc acaaggaaag agagcagcca cccagatttg cacagcctgg ctcttttkga 1200
gtatgaatat ngccatgcgc tgggaaggca ctcatgaga tggagaaagc agcctggggg 1260
gacaagaagt gaagactcct gtntccaaaa a 1291

```

&lt;210&gt; 61

&lt;211&gt; 971

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (856)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (886)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 61

```

ctgcagtacc ggtccggaat tcccgggtcg acccacgcgt ccgggtctgt ggtcctctct 60
cggctcctcg cggctcgcgg cggccgacgg ttcttgggac acctgcttgc ttggcccgtc 120
cggcggtcca gggcttctct gctgcgtcc cggttcgctg gacgggaaga agggctgggc 180
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tgagcgcgga cgcagcggcc ggggcgcccc tgccccggct ctgctgcctg gagaagggtc 300
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tggtggagcc cggctcgcgg gccgagaagg cggggctgct ggccgggggac cggctgggtg 420
aggtgaacgg cgaaaacgtg gagaaggaga cccaccagca ggtggtgagc cgcattccgcg 480
ccgcactcaa cgcctgcgc ctgctgggtg tcgacccga gacggacgag cagctgcaga 540
agctcggcgt ccaggtccga gaggagctgc tgcgcgcca ggaagcgcg ggcagggccg 600
agccgcccgc cgcgcgcrag gtgcaggggg ctggcaacga aaatrarcct cgcragggcc 660
acaagagcca cccggagcag cgcgagcttc ggctcggct ctgtaccatg aagaagggcc 720
ccagtggcta tggcttcaac ctgcacagcg acaagtccaa gccaggccag ttcattccgt 780
cagtggaccc agactccccg gctgaggctt cagggtccg ggcccaggat cgcattgtg 840
aggtgatget tctcgnntct ctctctatct gaactgcccc caaccnctgc agattagcag 900
caccttgggg cagccatcat accatcatgg ggtttgatta gcccacgggc attagccaac 960
ctgggaggtt g                                     971

```

&lt;210&gt; 62

&lt;211&gt; 618

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (563)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (598)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 62

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ggaccacgc tgcattttca tcgaaagagt gaacatctag tgggactgaa agttctttgt 120
tgtttcagat tgtagagtgt gattgatgga attggtctgt ggaaattgca ttgtttttat 180
ttctttatgt aatcagttta agtaataggg ggtatatata atcgtaagta ttttaggggtg 240
ggaggggcta ttaagtaatt aagtgggtgg ggtagttta aaagttagca tgatatgtat 300
tagataactc tataagtggg catgtgtact tacttgtagt cctttaccct atgattgcta 360
cccttaacga tttcaaataa actcagaggg aactgcaggg agatcaaacc atttagggca 420
aattggacat gaataaaact ctagtgggaa aaagttcaaa ggtgattgaa taaataattt 480
aactttgccc tgggtattaa gtccagggtc cccagattgt ggagcagagc cttggagagt 540
acaggatgaa ggagatagat gcncctttga cttgccggga atgaaattgg attaatgnaa 600

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ggatggtaaa taattcca

618

<210> 63

<211> 1138

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (22)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (27)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1123)

<223> n equals a,t,g, or c

<400> 63

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 cgctccgatg acttcacccc tctggagatc ctctggacct tctccatcta cctggagtca 120  
 gtggccatct tgccgcagct gttcatggtg agcaagaccg gcgaggcgga gaccatcacc 180  
 agccactact tgtttgcgct aggcgtttac cgcacgctct atctcttcaa ctggatctgg 240  
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<210> 64

<211> 418

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (365)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (371)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (380)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (391)

<223> n equals a,t,g, or c

<400> 64

tgctcatcca gaggagctca ccacagtcac tgcgacagac tgccacactc accctggcct 60  
ggcctcagag aagttgagct actggcctca gtccacacag agcagatgga ggaagagctg 120  
gcactaggac ccagggggca ggggggagcc tccctggctg gaagggatgg caggagcgct 180  
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actaggacca gggccctggg cctccccaca ctcccatgg agaagctggc ggcctctaac 360  
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<210> 65

<211> 2836

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2834)

<223> n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2836)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 65

```

aagaaaccgc ccattacaca cccagtaga ccagcagagg aaacttataa cctcgggagg 60
caggctccttc ccctcagtagc gggtcacatac ttccagaaga ggggaccagg gctgctgcca 120
gcacctgcca ctcagagcgc ctctgtcgtc gggacccttc agaactctct ttgctcacia 180
gttaccaaaa aaaaaagagc caacatgttg gtattgctgg ctggtatctt tgggtccac 240
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aaccggttct tcctctcagg ggscaccaca ctggtgtgct gsctgtgcat tcttggtggg 540
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cctacatcct gggctggatc tgcttctgct tcagcttcac catcggtggt ctctatctgg 660
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gccgttgaaat ctgggaggga agtgagggtt gctgtacagg aaaaaccgag atagggaggg 780
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atcttttact tttttctgt gacatttatg tctcatgtaa tttgcattac tctggtggat 2640
tgttctagta ctgtattggg cttcttcgtt aatagattat ttcatactat ataattgtaa 2700

```

```

atattttgat acaaatgttt ataactctag ggatataaaa acagattctg attcccttca 2760
ttgtgtgaat gtttttttct aaaaaaatg tggagaaata tggataatta tgacatttat 2820
ccctcattaa agcngn                                     2836

```

<210> 66

<211> 2305

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1973)

<223> n equals a,t,g, or c

<400> 66

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aaacgttccc ggtccttccct gaaccaagct gtggaccctc gtaagcaacc cggacaccga 60
cgcgctcatc tgctggagcc cgagcgscaa cagcttccac gtgttcgacc agggccagtt 120
tgccaaggag gtgtgcccga agtacttcaa gcacaacaac atggccagct tcgtgcggca 180
gytcaacatg tatggttcc ggaaagtggc ccacatcgag cagggcgkcc tggcaagcc 240
agagagagac gacacggagt tccagcacc atgtctcctg cgtggccagg agcagctcct 300
tgagaacatc aagaggaaaag tgaccagtgt gtccaccctg aagagtgaag acataaagat 360
ccgccaggac agcgtcacca agctgctgac ggacgtgcag ctgatgaagg ggaagcagga 420
gtgcatggac tccaagctcc tggccatgaa gcatgagaat gaggtctgtt ggcgggaggt 480
ggccagcctt cggcagaagc atgcccagca acagaaagtc gtcaacaagc tcattcagtt 540
cctgatctca ctggtgcagt caaacgggat cctgggggtg aagagaaaga tccccctgat 600
gctgaacgac agtggctcag cacattccat gcccaagtat agccggcagt tctccctgga 660
gcacgtccac ggctcgggccc cctactcggc cccctcccca gcctacagca gctccagcct 720
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```

```

ctctggttgt cacaggacca ccaggaaccc ccttcccaag gtgttcgcac tcggacaggt 2220
gatgcggggc gggcacactg tctttctgcc agagccagca ccctgtgtag gcacggggaa 2280
cgggagcctg tcccgtagct ttagg                                     2305

```

```

<210> 67
<211> 1907
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (1221)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (1655)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (1896)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (1904)
<223> n equals a,t,g, or c

```

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<400> 67
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tcagcctgaa aatccctgaa attagcatcc aggatatgac agcccagggtg accagcccat 120
cgggcaagac ccatgaggcc gagatcgtgg aaggggagaa ccacacctac tgcacccgct 180
ttgttcccgc tgagatgggc acacacacag tcagcgtgaa gtacaagggc cagcacgtgc 240
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agatctcttt tgaggaccgc aaggacggct cctgtggtgt ggcttatgtg gtccaggagc 480
cagggtgacta cgaagtctca gtcaagttca acgaggaaca cattcccgcac agcccccttcg 540
tgggtgcctgt ggcttctccg tctggcgacg cccgccgcct cactgtttct agccttcagg 600
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gcggccccta ccacattggg ggcagcccct tcaaggccaa agtcacaggc ccccgctctg 1140
tcagcaacca cagcctccac gagacatcat cagtgtttgt agactctctg accaaggcca 1200
cctgtgcccc ccagcatggg nccccgggtc ctgggcctgc tgacgccagc aaggtggtgg 1260

```

```

ccaagggctg gggctgagca aggcctacgt aggccagaag agcagcttca cagtagactg 1320
cagcaaaagca ggcaacaaca tgctgctggt ggggggttcat ggcccaagga cccctgcga 1380
ggagatcctg gtgaagcacg tgggcagccg gctctacagc gtgtcctacc tgctcaagga 1440
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gctacccaag cagccccgcc ctcttcccc caaccccgcc ccaggccgcc ctggccgccc 1620
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gccgctgacc tctcggtttt cacttgggca gagggagcca tttggtggcg ctgcttgtct 1740
tctttggttc tgggaggggt gagggatggg ggtcctgtac acaaccacc actagtcttc 1800
ttctccagcc aagaggaata aagttttgct tccattcwma aaaaaaaaaa aaaaaaaaaa 1860
tygggggggg kccgktaacc caattggcct ttaagnnggt ggtntta 1907

```

<210> 68

<211> 815

<212> DNA

<213> Homo sapiens

<400> 68

```

gggtcgacc acgcgtccgt tttttttaag tgtgaatttt ttattgagat aaacaacagc 60
ataaagaata caagtagcca aatgggtttt aaaaaccaaa ttaggtcaaa gttctaaatt 120
aaaaatagca gttgtgtttc aatttacctt attctagcaa ttwaagtwgg taacatacaa 180
atagttatwc tgatacaaga tattaagac atactcagtt ttaatcaact acctctcaag 240
aaacagtagg gcctctgtaa aattggagac tgataggttg atcagaaact caccctaaat 300
ctgaacgggt gccgtataa tttgtgacat ctggcaagat tcccctttat gtatatattt 360
taacaatccg cttggacacg aacaaagcca cacttctaac tgcttctggc gaactgattt 420
tatttttaat ttttttcaat aaagatatc ttagatactg aaagaaatag ttaatgagtt 480
tgcattttgt cttgagaaaa tttggctcaa gtccatttgg ctgtagtgtc aacgatgttt 540
ccagtagtgt ttagatttgg tgtcttcaaa ggtagttgat taaaaccaag tgtgtcttta 600
atatcttgta tcagaataac tttgtatgtt accaacttaa attgctagaa taaggtaaat 660
tgatacacia ctgctatttt taatttagaa ctttgacctt atttgggttt tcaaaacat 720
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tatacttact aaaaaaaaaa aaaaaaaaaa actcg 815

```

<210> 69

<211> 1150

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (23)



<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (25)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1150)

<223> n equals a,t,g, or c

<400> 69

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ctcgtgcaat tcgngcagan tgntncctgg cctccttttg cttgcccgtg gctgttcctc 60
ctgggtcctc ttgccctggg ctggatgcct tcttcggctc cccctctgca tgtgataact 120
tggggtggcc cttggagctg tgccaaagct acacctcggg gtcctagtct caactggcct 180
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gtccatcatc ccagtggta tggtggcat catcgccatc tacggcctgg tggggcagt 360
cctcatcgcc aactccctga atgacgacat cagcctctac aagagcttcc tccagctggg 420
cgccggcctg agcgtgggcc tgagcggcct ggcagccggc tttgccatcg gcatcgtggg 480
ggacgctggc gtgcggggca ccgccagca gcccgcacta ttcgtgggca tgatcctgat 540
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cctcaccgcc gggcccgtgg ccctgcgcgg agctgtgtcc aataaagttc ttggatgtga 1080
aaaaaaaaa aaaaaaaaaa aaaaaaaraa aaaaaaaaaa aaaraaaraa aaaaaawaa 1140
gaaaaaaaaa                                     1150
```

<210> 70

<211> 344

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (287)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (333)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (339)

<223> n equals a,t,g, or c

<400> 70

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cgcaggctct gcggccgggt tccttccgcg ggacggggag aaagagagag cgcgaaagag 60
agaggatgtc tctctcagat tggcacctgg cggtgaagct ggctgaccag ccacttgccc 120
caaagtctat tctccagttg ccagagtcag agctgggtga atactctctg gggggctaca 180
gtatttcatt tctgaaacag ctcattgctg gcaaaactcca ggagtcgggt ccagaccctg 240
agctgattga tctgatatac tgtggccgga agcttaaaga tgaccanacc ttgacttcta 300
cggatttcaa cctggctcca catccatgtt ctncggaant cctg 344
```

<210> 71

<211> 448

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (425)

<223> n equals a,t,g, or c

<400> 71

```
tcgacccaag catccgaaga tggtcttgcg gcccttccg gctgccgggc gagtcgtcct 60
ccgacgtctg ggcgtgaaca gttctgggca cggggtctcg ccgccgcaga catgacgaag 120
ggtcttggtt taggaatcta tagtaaagac aaagaagatg atgtgccaca gtttacgagt 180
gcaggagaga attcgataa attggtgtct ggaaagtga gagaaatttt gaacatatct 240
ggacctctc tgaaagcagg caaaacccga accttttatg gtctgcatga ggacttcccc 300
agcgtggtgg tggtcggcct cggcagaaaag gcagctggag tcgatgacca ggaaaactgg 360
cmtgaaggca aagaaaacat cagagtcgcc atgcaacggg gtgcaggcag gttccaagac 420
ctggnaatct cttctgtgga aggtggat 448
```

<210> 72

<211> 2825

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1809)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2093)

<223> n equals a,t,g, or c

<400> 72

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tcatgaggtt gctcgcgcgc cccgcggat cgccatggat cggatgaaga agatcaaacc 120
gcagctgtca atgacactcc gaggtggccg aggcataagc aagaccaatg gtgcccctga 180
gcagataggc ctggatgaga gtggtggtgg tggcggcagt gaccctggag agggcccccac 240
```

```

acgtgctgct cctggggaac ttcgttctgc acggggccca ctcagctctg caccagagat 300
tgtgcacgag gacttgaaga tgggggtctga tggggagagt gaccaggctt cagccacgct 360
ctcggatgag gtgcagtctc cagtgagagt gcgtatgcgc aaccatcccc cagcgaagat 420
ctccactgag gacatcaaca agcgccctatc actaccagct gacatccggc tgcctgaggg 480
ctacctggag aagctgaccc tcaatagccc catctttgac aagcccccca gccgccgcct 540
ccgtcgtgtc agcctatctg agattggcct tgggaaactg gagacctaca ttaagctgga 600
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tcctgaatgc accataatcg ctgtatgaaa tattaataag tctaaagtga aaaaaaaaaa 2820
aaaaa 2825

```

&lt;210&gt; 73

&lt;211&gt; 510

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 73

```

atgtacgaga gcgcatccaa agaacctagt agagaaaggt attctaacca ctgagaagca 60
gaatttccts ctatttgaca tgactactca tccagtgacc aatacaacag agaaacagcg 120
actagtgaaa aaacttcaag atagtgtact agagcgggtgg gtaaatgacc ctgagcgat 180
ggacaagcga acactagcac tcctgggtgct agcccactcc tctgatgtgc tagagaatgt 240
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gctggcagcc tttyaataaa tcytaaagcc rgyrggtggg tttctycttt tcccctgctg 420
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ttttccttyc ttgaatcaga cttgtgaatt 510

```

<210> 74

<211> 458

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (382)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (388)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (424)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (448)

<223> n equals a,t,g, or c

<400> 74

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gcctcctggg tcttgataac ttcagtgtt ctgggagctg cccggttggc caccagtctc 180
tgtggaatcc aggggcctct tcccaatatg gatttgacca gcacttcaat tagtgagttt 240
ccatkagcat cttagcatta ctctttaata cagacgcctt attttccagg gtttatgaaa 300
gtttaagtga caaccatgga ttgcaggaa acagctgttg gaagctgttt ttccagtggg 360
aaagttgggt ccaggagatg angggagnct tgaaatagat cctgggatgg aaacataaag 420
tggncagcca gattcccatc atgggctncc ccataaaa 458

```

<210> 75

<211> 377

<212> DNA

<213> Homo sapiens

<400> 75

```

gtcctggaaa cacatcaagc tcagctcctg tgtccagctc gcttctctgc tggactcctt 60
gatttttttt ttaatcattg tttgattttg agcagtaacc aggctttttt ttccagatgt 120
tagtccacac ctattcatcc atggaccggc acgatggtgt cccgagccac agctcgcggc 180
tctcccagct gggctcgggtg tcccaaggac cctactcgag cgtcccgcgg ctgtcccaca 240
ccccgtcgtc ggacttccag ccgccctact tcccacccc ctaccagccg ctcccctamc 300
amcagagcca ggaccctac tcccacgtca amgamcccta tccctgaacc cactgcacca 360
gccccagcaa catccct                                     377

```

<210> 76

<211> 2070

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (39)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (88)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2068)

<223> n equals a,t,g, or c

<400> 76

```

tcattgaatgg gaatcctggn cccaagaact ccgcttgcn g cagagggac ctgcagctga 60
ggacctatag cgttgtgccc atgacctnca gtgtatccca gggcaccgcc gtgtgtaata 120
taaagattgg ctgacaaaaa tgtcaggaaa acatgatgtt ggagcttaca tgctaagtga 180
taagggcgct aatcgtactg aaacagtcac gtcttttaga aaacgagaaa gtaaagtgcc 240
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gattggagac agacatctga acaactttat ggtggccatg gagactggcg gcgtgatcgg 420
gatcgacttt gggcatgctg ttggatccgc tacacagttt ctgccagtcc ctgagttgat 480
gccttttcgg ctaactcgcc agtttatcaa tctgatgtta ccaatgaaag aaacgggcct 540
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caacaccatg gatgtgtttg tcaaggagcc ctcctttgat tggaaaaatt ttgaacagaa 660
aatgctgaaa aaaggagggt catggattca agaaataaat gttgctgaaa aaaattggta 720
ccccgacag aaaatatgtt acgctaagag aaagttagca ggtgccaatc cagcagtcac 780
tacttgatgat gagctactcc tgggtcatga gaaggccctt gccttcagag actatgtggc 840
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agaagagact caagtgaagt gcctgatgga ccaggcaaca gacccaaca tccttggcag 960
aacctgggaa ggatgggagc cctggatgtg aggtctgtgg gagtctgcag atagaaagca 1020

```

```

ttacattggt taaagaatct actatacttt ggttggcagc attccatgag ctgattttcc 1080
tgaaacacta aagagaaatg tcttttgtgc tacagtttcg tagcatgagt ttaaatacaag 1140
attatgatga gtaaattgtg atgggttaaa tcaaagataa gggtatagta acatcaaaga 1200
ttaggtgagg tttatagaaa gatagatata caggcttacc aaagtattaa gtcaagaata 1260
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acttgtattt ggaggctctt ctgtgatttt gagaagtata ctcttgagtg tttataaag 2040
tttttttcca aaaaaaaaaa aaaaaaantt

```

2070

&lt;210&gt; 77

&lt;211&gt; 997

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (619)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 77

```

ctcgccctcc tgactcttcc tgcaggtggc tcaggaagga ttcagcctgg ccaattggct 60
aggactctgc cagcacccat ctgagactga cctcttccgg gcctttggac actatgacct 120
tgatgtctgc cttcaggcag gaaacagggc tgggtgcctt tttcacctgc atggccagct 180
tccttccctg gcagtggaga gggcagccaa caggttctaa tgtcagagcc atcctttacc 240
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gctgattaaa gaagtctctg tagtttccca agcaaagtgg aatctagaaa cagtgaaaaa 360
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aaggtagagg gtttttcttt tttgtaataa tataaagctg tgtgtttctg attggatgat 960
tcactatgtg cattgttccy cctaagtgct tttagta

```

997

&lt;210&gt; 78

&lt;211&gt; 1333

&lt;212&gt; DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1254)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1297)

<223> n equals a,t,g, or c

<400> 78

```

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aggtgcaggg ggctggcaac gaaaatgagc ctgcgcaggc cgacaagagc caccgggagc 120
agcgcragct tcggcctcgg ctctgtacca tgaagaaggg cccagtggc tatggcttca 180
acctgcacag cgacaagtcc aagccaggcc agttcatccg gtcagtggaac ccagactccc 240
cggtgaggc ttcagggtc cgggccaggc atcgcatgtt ggaggtgaac ggggtctgca 300
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ctcaggagca cctgaatggt cccctgcctg tgcccttcac caatggggag atacagaagg 480
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tccttgatta acatgatttc ctggttggtta catccanggc aggcagtgga tcagctttaa 1320
atttggtttc cta                                     1333

```

<210> 79

<211> 560

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (542)

<223> n equals a,t,g, or c

<400> 79

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caatggggct gaggtgtgtt ccaactgaggc taagatgact gcctttcctg attggccttg 60
gcttttccat acattgtgtg acccttgccc tatgaccctt tggctgacct taccggaagc 120
catgacgaca gcagcctttt gccattagac gcagggtgat ggtgaggatt ccaagggtta 180

```

```

gacaaaaactg gttaatctga actagggtgac tgttaccttg cgtgttttgt ggccaaacca 240
ccaccaaaaaa cctcacactg tgatgtaagt acttagtgta aaactagtaa acatttttgt 300
aaaatgtaga aatgcacgtg atcagttaag ttttatattt tacaatgttc tgtaaaataa 360
aacttagcga ggtaaatcga ataaaggagc agtcactctc taacagattg taggagaggt 420
ttagttggat ttagtctatt tgacttgccc ttaatttaat tttatggcaa atcacaaatg 480
tgtcgaaggt ttagcaatat aatagcaaag tcctactcca gtaaataaaa gttggtatgt 540
tngtacttaa ctttcaaaag                                     560

```

<210> 80

<211> 3203

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1116)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1443)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1942)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3188)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3201)

<223> n equals a,t,g, or c

<400> 80

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cccctggacc atgtcccgcg ccctgcggcc accgctcccg cctctctgct ttttcctttt 120
gttgctggcg gctgccggtg ctcgggcccg gggatacgag acatgcccca cagtgcagcc 180
gaacatgctg aacgtgcacc tgctgcctca cacacatgat gacgtgggct ggctcaaaac 240
cgtggaccag tacttttatg gaatcaagaa tgacatccag cacgccggtg tgcagtacat 300
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ggacacattt ggcaatgatg ggcgaccccg tgtggcctgg cacattgacc ctttcggcca 600
ctctcgggag caggcctcgc tgtttgcgca ratgggcttc gacggcttct tctttgggcg 660
ccttgattat caagataagt gggtagcgat gcagaagctg gagatggagc aggtgtggcg 720

```



```

ggccagcacc agcctgaagc ccccgaccgc ggacctcttc actggtgtgc ttcccaatgg 780
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caagcctcct gtcgggggg cagaccagac tctgactctc ctcttgggct gctgccatta 3120
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aaatttanaa aaaaaaaaaa naa 3203

```

&lt;210&gt; 81

&lt;211&gt; 1710

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1424)

<223> n equals a,t,g, or c

<400> 81

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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1710
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<210> 82

<211> 1379

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (280)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1365)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1378)

<223> n equals a,t,g, or c

<400> 82

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gacgctgggc ctgcagcgcg gagcagaaag cagaaccgcg agagtccctc ctgctgctgt 120
gtggacgaca cgtgggcaca ggcagaagtg ggccctgtga ccagctgcac tggtttcgtg 180
gaaggaagct ccaggactgg cgggatgggc tcagcctgta tcaaagtcac caaatacttt 240
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tggatcctgg ccgacaagag cagtttcacg tctgtcctgc aaacctcctc cagctcgctt 360
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gtgccgctgt ggcctgaaga tggggaagtg ggcagtgcca gacatggcca tcccttttat 1320
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```

<210> 83

<211> 678

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (602)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (626)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (648)

<223> n equals a,t,g, or c

<400> 83

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cttgtgtgcc tgggtcgagg gctacggggc ccagggattg tgtttaaagt agtgcttcta 120
ccaacatgtc ccgtggttcc agcgcgggtt ttgaccgcca cattaccatt ttttcacccg 180

```

```

agggtcggct ctaccaagta gaatatgctt ttaaggctat taaccagggt ggccttacat 240
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aattattgga ttccagcaca gtgactcact tattcaagat aactgaaaac attggttggtg 360
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ctaactggaa atacaagtat ggctatgaga ttcctgtgga catgctgtgt aaaagaattg 480
ccgatatttc tcagggtctac acacagaatg ctgaaatgag gcctcttggt tgttgatga 540
ttttaattgg tatagatgaa gagcaaggcc ctcagggtata taagtgtgat cctgcagggt 600
antactgtgg ggtttaaagc cactgnagcg ggagttaaac aaactggngt caaccagctt 660
ccttgaaaaa aaagtggg                                     678

```

<210> 84

<211> 2803

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (50)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (517)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (572)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1926)

<223> n equals a,t,g, or c

<400> 84

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cgccccgcaa raatctggtt gctctgccgg atggcatctc ggagctcttg attctcctcc 120
aggcarcgct ggagggtctc aggagcgccc tgtctgaaag gcagggtgcag catggctggc 180
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tgaccatctt cacacagttg gctctccag aggtgcctat tcatccaaca gggcaagggc 300
tgtcagcaga gtccgtcaga cgtgagaagg gtgggagcgg cggactgtga acgctggtag 360
ggccccggcg ctccgagaaa gtcccagttt cgcggtcgcc ctccctacc acgcttcccg 420
cttccggtgt catagctgtg ggatccggaa gtaaaaacac aagccccgcs cccrrgaact 480
cgggaagccg gcgakaagtg tgaggccgcg gtagggncgc atcccgtcc ggagagaagt 540
ctgagtcgcg cagctctgca ggcccgcgga antcgacagc gtcatggcag agcagggtggc 600

```

```

cctgagccgg acccaggtgt gcgggaccc cggggaagag cttttccagg gcgatgcctt 660
ccatcagtcg gatacacaca tattcatcat catgggtgca tcgggtgacc tggccaagaa 720
gaagatctac ccaccatctt ggtggctgtt ccgggatggc cttctgcccg aaaacacctt 780
catcgtgggc tatgcccgtt ccgcctcac agtggctgac atccgcaaac agagtgaacc 840
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cccaacctca atgcctgcc attaaatccg caaacagcca aaaaaaaaaa aaaaaaaaaa 2760
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aag 2803

```

&lt;210&gt; 85

&lt;211&gt; 1278

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 85

```

tcgaccacag cgtccgcaag aagctttttt agggcctgaa gttcttctctg aaccgagagt 60
gcccgtgtag gccctggcct tcatcatcag gagttttggt ggggaagtgt cctgggacaa 120
atctttgtgc attggggcca cctatgacgt cacagactcc cgcatcacc atcagattgt 180
cgaccggcct gggcagcaga cctcagtcac tggcaggtgc tacgtgcagc cccagtrggt 240
gtttgactca gtgaacgcca ggctccttct ccccggtggc gagtacttct ctgggggtgca 300
gctgccccca cacctttcac cctttgtgac cgagaaggaa ggagattacg ttccacctga 360
gaagctgaag ctgctggctc tgcagcgggg agaggaccca ggaaacctga atgagtcaga 420

```

```

agaggaggag gaagaggacg acaacaacga aggtgatggt gatgaagagg gagaaaatga 480
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cctggaagag cagaggatgg aggggaagaa gcccagggtg atggcaggca ccttgaagct 600
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gatgatgaag aagcgggaga agtacctgta ccagaagatc atgtttggca agaggcgaag 720
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cacacagtgt gacccgtgat tctcaggtg ctgtgatggg gtgagggtag ggggagcatt 1200
tgttattaaa tgactggact tttgtgcaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1260
aaaaaaccca cgcgtccg                                     1278

```

&lt;210&gt; 86

&lt;211&gt; 2585

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2573)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 86

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accccgaggt gtcccctttg gctcgattcc caggaaactc ctcctcaacc cctttggcat 120
cagcattaca agccaaagcc tcaatccagg gccctttcgt actcctaaag caggagataag 180
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aagatacaga ttggctgcca cacagatgac ctgaccaggg ccagcaagct tttccgaggc 720
ccactcgtaa ttaaccggtg ctgcttgga aaaccacaa aatcgatcac gtgcctctgg 780
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```

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cttaatttta attccatctc cagagagatt tgaggtgtat ttaagatgaa aaacaggata 2520
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```

<210> 87

<211> 385

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (385)

<223> n equals a,t,g, or c

<400> 87

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ttttatatatt caactaaaag tatcaaaata tagctttcca gaaaaccccg aaccaaagtc 120
actgactaca tcaaagtcta ctacaccttg agaaaacaaa tgaacgaaaa tctattttcc 180
tcattcatta cccaacaat aataggactc cctatcgtaa ttattatcac tatgtttcca 240
agcattatat tcccatcacc taccgactr aatcaataat cgactscatc tccattccaa 300
caatgattag tgcactgaac atscaaaaca aatrttgatc catgccacaa ccaaaaagga 360
caaactggag cccgatatt gatan 385
```

<210> 88

<211> 2500

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (429)

<223> n equals a,t,g, or c

<220>

<221> misc feature  
<222> (1088)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (2480)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (2482)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (2491)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (2497)  
<223> n equals a,t,g, or c

<400> 88  
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gccctgctgg tggagacca gatgaaaaag ttggagatca aacttcggca ctttgaggag 180  
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atggattaaa aaaaaaaaaa aaagtagatt ttaaaaagcc acattggagc tcccttctac 1500  
ccactaaaaa ataaccaatt tttacatttt ttgaggggga gtgagtttta ggaaagggga 1560



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attaagattc cagggagagc tctggggata gaacagggcg cagattccat ctctcccca 1620
gcccttttt agtgactaag tcaaggcccc aactccctc cccacccta cgctgagctt 1680
attcgagttc attcgacta ataatccctc ctgcggtctc ctcatgtgtg ctgttttagg 1740
ccacccagc tcagccaatg attcctttcc ctctgaatgt cagttttgtt tttaaaagtc 1800
acttgcttag ttgatgtcag cgtatgtgta tttggtggg aaaacctaatt ttcggggatt 1860
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acctttcttc tgttcaaagt tttctgtaa ttttctctt ttttcttct tcttttttt 2400
ttttttata aattaatttg ctttcagtt caaaaaaaa aaaaaaaaa aaaaaaaaa 2460
aaaaaaaaa aaaaaaaaa tngagggggg ncccgnacc 2500

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<210> 89

<211> 1409

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (841)

<223> n equals a,t,g, or c

<400> 89

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aggagtatgt atttcccgcc aagaagaagc tgcaggaata ccgggtctta attaccaccc 60
tcatcactgc cggcagtttg tctcggccca gtttccatt gatcacttca cacacatctt 120
catcgatgag gctggccact gcatggagcc tgagaagtct ggtagctata gcagggtga 180
tggaagtaaa ggaacagggt gatccaggag ggcagctggt gctggcagga gaccctcggc 240
agctggggcc tgtgctgctg tccccactga ccagaagca tggactggga tactcactgc 300
tggarcggtc gctcacctac aactccctgt acaagaagg ccctgatggc tatgacccc 360
agttcataac caagctgctc cgcaactaca ggtctcatcc caccatcctg gacattccta 420
accagctcta ttatgaagg gagctgcagg cctgtgctga tgtcgtggat cgagaacgct 480
tctgccgctg ggcgsccta cctcgacagg gcttcccat catctttcac ggcgtaattg 540
gcaaagatga gcgtgaaggc aacagcccat cctcttcaa ccctgaagag gctgccacag 600
tgacttcta cctgaagctg ctctggccc cctcctcaa gaaggcaca gctgcctga 660
gccctcgaag tgtggcgctc atctcccgt accggaaaca ggtggagaaa atccgttact 720
gcatcaccaa acttgacagg gagcttcgag gactggatga catcaaggac ttgaagtggt 780
gttcagtaga agaattcaa ggccaagaac gaagcgtcat cctcatctcc accgtgcgaa 840
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ggtctgagca agctcagccc ctctacctca gggccccaca gycatgacta cctccccag 1140
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tgaagacaca gcaccagcc ttctgcacc agccaagcct taactgcctg cctgaccctg 1260
aaccagaacc cagctgaact gccctccaa gggacaggaa ggctggggga gggagttaac 1320
aaccaagcc attycaccck cctccctgct ggggagaatg acacatcaag ctgctaaca 1380

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ttgggggaag gggaaggaag aaaactctg

1409

&lt;210&gt; 90

&lt;211&gt; 1336

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (49)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1284)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1317)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1333)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 90

agaacagtac ctccctctca ctgaggaaga actagaaaaa gaagcaaana aagttgaagg 60  
atgtgatctg gttcagaagc caagttatta tgtagactg ggatccctgt ctaccaagct 120  
tactcccggt gcctaccagc aggtctctag cagggttaaa gaagctaagc aaaaaagcca 180  
acagaccatt tctcagctcc attctactgt tcacctgatt gaatttgcca ggaagaatgt 240  
gtatagtgcc aatcagaaaa ttcaggatgc tcaggataag ctctacctct catgggtaga 300  
gtggaaaagg agcattggat atgatgatac tgatgagtc cactgtgctg agcacattga 360  
gtcacgtact cttgcaattg cccgcaacct gactcagcag ctccagacca cgtgccacac 420  
cctcctgtcc aacatccaag gtgtaccaca gaacatccaa gatcaagcca agcacatggg 480  
gggtgatggca ggcgacatct actcagtgtt ccgcaatgct gcctccttta aagaagtgtc 540  
tgacagcctc ctactttcta gcaaggggca gctgcagaaa atgaaggaat ctttagatga 600  
cgtgatggat tatcttggtt acaacacgcc cctcaactgg ctggtaggtc ccttttatcc 660  
tcagctgact gagtctcaga atgctcagga ccaagggtgca gagatggaca agagcagcca 720  
ggagaccagc cgatctgagc ataaaactca ttaaacctgc ccctatcact agtgcatgct 780  
gtggccagac agatgacacc ttttgttatg ttgaaattaa cttgctaggc aaccctaaat 840  
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gcttttaaagt ttctggcatt agcagatgat ttctgttcac ctggtaagaa aagaatgata 960  
ggcttgtcag agcctatagc cagaactcag aaaaaattca aatgcactta tgttctcatt 1020  
ctatggccat tgtgttgctt ctgttactgt ttgtattgaa taaaaacatc ttcatgtggg 1080  
ctggggtaga aactgggtgtc tgctctggtg tgatctgaaa aggcgtcttc actgctttat 1140  
ctcatgatgc ttgcttgtaa aacttgattt tagtttttca tttctcaaat aggaatacta 1200  
cctttgaatt caataaaatt cactgcagga tagaccagtt aaaaaaaaaa aaaaaaaaaa 1260  
aaaagggggg ccgcccagg grtnccccc agggggggcc cagctttacg cgtggcgtgc 1320  
gacgtccaaa gcnccc 1336

<210> 91  
<211> 787  
<212> DNA  
<213> Homo sapiens  
  
<220>  
<221> misc feature  
<222> (677)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (725)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (742)  
<223> n equals a,t,g, or c

<400> 91  
ggcacgagct gtggggctgt gggcctgtta ccccagggc cacagctccc tccggctggg 60  
cccaggctcc actcagtgc acggctcaag tctacatgga gctgcagggc ctggtggacc 120  
cgcagatcca gctacctctg ttagccgccc gaagtacaag ttgcagaagc agcttgatag 180  
cctcacagcc aggaccccat cagaagggga ggcagggact cagaggcaac aaaagctttc 240  
ttccctccag ctggaattgt caaaactgga caaggcagcc tctcacctcc rgcagctgat 300  
ggatgagcct ccagccccag ggagcccgga gctctaactc atcatcccca tcagttttcc 360  
tccctctcag acctgtcttt gaggacaaac agatttgtca gctgtcaggg tgcagtggga 420  
cgtcagagac tatgtggtcc atcgccttca ttgtgtaaat gaggacacag actggcttgg 480  
tcgcagtgc tgtggtgtcc ttgagatgct cacattactg cccggcctgc ctcccacctg 540  
gaagtctggg aatgaggaga ttgagataaa cttttgaaat cccaaacatg tctgtttatg 600  
gctctttggt cccctttgct cccagtgggt acttttgtgc ttctgagttg tcccctgaga 660  
gcttggtctg ggaaaanagg aaggaagggg tcctcactgg aggaagagga acctttctaa 720  
gtcangggta aggggaatgg gnacagttgg ttcccgggtc taacctcctt ttctggactg 780  
acaagtg 787

<210> 92  
<211> 1657  
<212> DNA  
<213> Homo sapiens

<400> 92  
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ggcctccatt gttcgtgttt taaggcgcca tgaggggtga cagaggccgt ggtcgtggtg 120  
ggcgtcttgg ttccagagga ggcccaggag gaggggtcag gccctttgta ccacatatcc 180  
catttgactt ctatttgtgt gaaatggcct tccccgggt caagccagca cctgatgaaa 240  
cttccttcag tgaggccttg ctgaagagga atcaggacct ggctcccaat tctgctgaac 300  
aggcatctat cctttctctg gtgacaaaaa taaacaatgt gattgataat ctgattgtgg 360  
ctccagggac atttgaagtg caaattgaag aagttcgaca ggtgggatcc tataaaaagg 420  
ggacaatgac tacaggacac aatgtggctg acctggtggt gatactcaag attctgccaa 480

```

cgttggaagc tgttgctgcc ctggggaaca aagtcgtgga aagcctaaga gcacaggatc 540
cttctgaagt ttttaaccatg ctgaccaacg aaactggctt tgaaatcagt tcttctgatg 600
ctacagtga gattctcatt acaacagtgc cacccaatct tcgaaaactg gatccagaac 660
tccatttgga tatcaaagta ttgcagagtg ccttagcagc catccgacat gcccgctggt 720
tcgaggaaaa tgcttctcag tccacagtta aagttctcat cagactactg aaggacttga 780
ggattcgttt tcctggcttt gagccctca caccctggat ccttgacctg ctaggccatt 840
atgctgtgat gaacaacccc accagacagc ctttggccct aaacgttgca tacaggcgct 900
gcttgcatg tctggctgca ggactgttcc tgccagggtc agtgggtatc actgaccctt 960
gtgagagtgg caactttaga gtacacacag tcatgacctc agaacagcag gacatggtct 1020
gctatacagc tcagactctc gtccgaatcc tctcacatgg tggctttagg aagatccttg 1080
gccaggaggg tgatgccagc tatcttgctt ctgaaatatc tacctgggat ggagtgatag 1140
taacaccttc agaaaaggct tatgagaagc caccagagaa gaaggagga gaggaagaag 1200
aggagaatac agaagaacca cctcaaggag aggaagaaga aagcatggaa actcaggagt 1260
gacattccct tcaactcctt tcctacccaa gggggaagac tggagcctaa gctgcctgct 1320
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taaactccat agaagtgtca ttccactggg ttttgatatt ggcttagctg ccagtctccc 1440
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ataatctcca actcctgaaa acccctctct caactaatac tttgctgttg aaatgttgtg 1560
aaatgttaag tgtctggaaa ttttttttct taagaaaaac tattaagta cttcctagta 1620
ggaaaaaaaa aaaaaaaaaa aaacycgggg gttttct 1657

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```

<210> 93
<211> 485
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (478)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (485)
<223> n equals a,t,g, or c

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```

<400> 93
aattcggcac gaggggttct gcactaacag cctccaagcc ccctggcact tcttttgccc 60
tgagagtgtc ccaggggatt cagagtctcc agaaagatat ggctrggcca actctgttgc 120
ctacctrgcc tgaccagtc ggagcctgac atggtggagg gaaagggaga caagtggggc 180
tgactcgggt ccagaggcca gctaggaggg aaaccgcagc ttcctggggc ttgtgtgtga 240
agattcctga cttaggggtg gcttttgttt acaagatgca agaggggaaa cctgtccccg 300
actcatcgag acaacatgcc cagttatcag ggagtcctgt gtcacaaggt ctgtctctgc 360
cattgtaagc aagtgccttg ggcgagctgg cctctgcccc acagtctcat ctgtacaccg 420
acagggttga tgcctccctc acagggttga gaacaagagc cakttggcc attaaaaana 480
aaan 485

```

```

<210> 94
<211> 764
<212> DNA
<213> Homo sapiens

```

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (202)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (565)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 94

```
ccccagccag tctgccctct gccatggggg gcggagagga cgaggaggag gccaccgact 60
atggaggggac ctacagtgccg actgccgggg aggccgtgcg ggggctagaa acagctctgc 120
grtggtctga gaaccaggac ccagagaggg tggggccact gaggctggtg cagttgcgct 180
cactcatcag catggcccgg angctggggg gcacgaggca taccacagca ggcccctatg 240
acgggtgtgtg accaggccas ccagtgacc tttctcctgc tgcacttga gggaggggac 300
atacacacag tctcccatct ctctccctt cccctggggg tggcccaccg catgggtaca 360
gggggttcca ggaatccaaa tccagcatgg cttggaggag ctctgttggg gagaggctcg 420
cctgcctcac tggcaccctg ggggcacagc tggaagagag gcctggccca tgctcctctc 480
agggcaggga catgtacggg gcatacaagg cacagcgctt gttggaacag gtggctgtgt 540
tcctgtctctg gcccccgctg ggctngcctc cgccctgca ccagtcacat gcactggacg 600
agggccgaaa ctctgtctct ctatcgagcc ctggtgctat gtggccccgg agccacagca 660
caatcatctc agtggcgaa caccacctt gattctatct ttttttaaca cattaaatct 720
gtttttaaag ataaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaa 764
```

&lt;210&gt; 95

&lt;211&gt; 707

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (45)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 95

```
atthaggtga cactatagaa ggtacgcctg caggtaccgt tccgnaattc ccgggtcgac 60
ccacgcgtgc catcatggcg caggatcaag gtgaaaagga gaaccccatg cgggaacttc 120
gcacccgcaa actctgtctc aacatctgtg ttggggagag tggagacaga ctgacgcgag 180
cagccaaggt gttggagcag ctcacagggc agaccctgtg gttttccaaa gctagataca 240
ctgtcagatc ctttggcatc cggagaaatg aaaagattgc tgtccactgc acagttcgag 300
gggccaaggc agaagaaatc ttggagaagg gtctaaaggc gcgggagtat gagttaagaa 360
aaaacaactt ctgagatact ggaaactttg gttttgggat ccaggaacac atcgatctgg 420
gtatcaaata tgacccaagc attggtatct acggcctgga cttctatgtg gtgctgggta 480
ggccagggtt cagcatcgca gacaagaagc gcaggacagg ctgcattggg gccaaacaca 540
gaatcagcaa agaggaggcc atgcgctggt tccagcagaa gtatgatggg atcatccttc 600
ctggcaaaata aattcccgtt tctatccaaa agagcaataa aaagttttca gtgaaaaaaa 660
aaaaaaaaa aaaaaaaggg ggcccccttt tgggggtccc ctggggg 707
```

&lt;210&gt; 96

<211> 815  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (16)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (45)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (50)  
<223> n equals a,t,g, or c

<400> 96  
aacccttac tccctnccgt aatttttgta agcccttaaa ataanaaatn aaaaatycca 60  
taacccccaa agaagaatcc cccccacatt waggcttggt aagtaaatgc ctccctgacc 120  
caagcccgaa gatgcccccc attctctwag tgatggcggc gttagggttt gagagaagg 180  
aatttggtc aacttcagtt gagagggtgc agtccagaca gcttgactgc ttttaaata 240  
ccaaagatga cctgtggtta gcaacctggg catcttagga agcagtcctt ggagaaggca 300  
tgttcccaga aaggtctctg gagggacaaa ctactcagt aaaacataat gtatcatcat 360  
gaagaaaact gattctctat gacatgaaat gaaaatttta atgcattgtt ataattacta 420  
atgtacgtg ctgcaggaca ttaataaagt tgctttttta ggctacagt tctcgatgcc 480  
ataatcagaa cacacttttt ttctctttc tcccagcttc aaatgcaaat tcatcattgg 540  
gtcacttct aataactgca gtgtttcccg ccttgggctt gcagcagaaa aacctgacaa 600  
catagtgttt gctaaggcag taatttagac ttaccttat ttgtgattac tgtagtgatt 660  
gattgattga ttactattaa ctacaaggta taatttacta tcaccttatt taaattttat 720  
gaattaattt gaatgttttt tacactaact aacttttccc aataaagtcc actatgaaac 780  
cacgacaaaa aaaaaaaaaa aaaaaaaaaa aaaaa 815

<210> 97  
<211> 658  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (627)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (634)  
<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (635)

<223> n equals a,t,g, or c

<400> 97

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catcattggc gcggggctgt cagcggccgg acgcggtcct ctacgcccgc cactacaaca 60
tcccggatgat ccatgccttc cgccgggccc tggacgaccc tggcctggtg ttcaaccagc 120
tgcccaagat gctgtacccc gagtaccaca aggtgcacca gatgatgcgg gagcagtcca 180
tcctgtcgcc cagcccctat gagggttacc gcagcctccc caggcaccag ctgctgtgct 240
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tctccctggt gctggtcctc atcggctccc accccgacct ctccctcctg cctggggcag 360
gggctgactt tgcagtggat cctgaccagc cgctgagcgc caagaggaac cccattgacg 420
tggacccctt caccctaccag agcaccgcc agraggccct gtacgccatg gggccgytgg 480
ccggggacaa cttcgtgagg ttgtgacagg ggggcgcctt ggctgtkgcc agctccctgc 540
taaggaagga acagaaccac ctacatcgcc aaccctggtc cagcctraga ggaatacatc 600
ctctgatcga cctcaaatcc ggagttncce cttnncttgt caaattgacc gcccaata 658
```

<210> 98

<211> 249

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (248)

<223> n equals a,t,g, or c

<400> 98

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aaaatggtag acctgacagt accgggtccgg caattcccgg gatattgagc tggggttttg 60
agactscct tagagataga gaaacagacc caagaaatgt gctcaattgc aatgggccac 120
atacctagat ctccagatgt catttcccct ctcttatttt aagttatgtt aagattacta 180
aaacaataaa agctcctaaa aaatcaaaaa aaaaaaaaaa aaaaaaaaaa aaccccgggg 240
ggggccnng 249
```

<210> 99

<211> 752

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (612)

<223> n equals a,t,g, or c

<400> 99

```
acggcttcaa ccgagcttc tgcggccgca acgccacggt ctacgggaag ggcgtgtatt 60
tcgccaggcg cgctccctg tcggtgcagg accgctactc gcccccaac gccgatggcc 120
ataaggcggg gttegtggca cgggtgctga ctggcgacta cgggcagggc cgccgcggtc 180
tgccggcgcc ccctctgcgg ggtcctggcc acgtgctcct gcgctacgac agcgccgtgg 240
actgcactct ccagcccagc atcttcgtca tcttccacga caccagggcg ctgcccaccc 300
acctcatcac ctgcgargca cgtgccccgc gcttcccccg acgacccctc tggretcccc 360
```

```

ggccgctccc cagacactta accgaagggg ccaccctctg gcctcctgct tcccaggtc 420
ccagctccgc acaggtgat gctccccgcc cccaactgtg gccgcctgag ctgtccccgg 480
ggasgccctg cctccctctg cgggctccag aaggcgggtg gggggatggc ggtcagcagc 540
ggccgagggg ggccgggcta ggtcccagcc tgggccgacc ccaccaccag gggtcagcag 600
agcccaggag gngacaccgy ccgccgcgcg ctcccagacc tcgcccagat cggctctgtt 660
gtttgaataa acgtgaacgt gaaccaggc ggaagggacc cgggaaaaaa aaaaaaaaaa 720
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aa 752

```

```

<210> 100
<211> 3059
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (14)
<223> n equals a,t,g, or c

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```

<220>
<221> misc feature
<222> (28)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (109)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (3019)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (3047)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (3058)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (3059)
<223> n equals a,t,g, or c

```

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<400> 100
ggggtaaaac ccngaaaaaa aactccanat tttaattaaa tggcctcctc ccttcccccc 60
ttctttcccc cgtccccca actcccttct ctcgtcctct tccccccnc cctctccct 120

```



```

tttctcccca tctttcacct tcctaatttc agtgaaattg gagcgatttg aaattccaat 180
caagggttcga ttaagcccag agccatggac ccctgaaact ggtttggttaa ctgatgcttt 240
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<211> 1682  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (52)  
<223> n equals a,t,g, or c

<400> 101  
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aa 1682

<210> 102  
<211> 938  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (30)  
<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (812)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (913)

<223> n equals a,t,g, or c

<400> 102

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cgagtccgac tccctcaagg gtgacgcgag ctctgccctt taaccggaaa cgtctccctg 180
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gcggtgccac cggagaaact ggaaggagcc ggttcgagct cagcccctga gcgtaactgt 360
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gccccgcggg ctctagactc ggtcccgaga cgttccgcca gcgtttccgg cagtccgct 600
accaggatgc ggcgggtccc cgggaggctt tccggcagct kcgggagctg tcccgcagc 660
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agttttggca gcnaaaaaaa aaaaaaaaaa aagggcgg 938
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<210> 103

<211> 2012

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1993)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2002)

<223> n equals a,t,g, or c

<400> 103

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gtgtgaactg taaactcttc tctccaggcg tcgaggggac ctttgcttta ctttgcagct 240
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ctctgtcttc maaatarctt tgctatgtga cttttttgcc atcatgaatt ttacatcagt 360
gmtagctctt tgttttacgt gtttcattkg gcaggtcaca aaggctcttg gctaccacac 420
atacgtgcat acacacacac acacacacac acacacacac acacactcat aaaggatttt 480
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cttttctgct ttaccttta ttttcagtct acttggtctg taatgaaagg tagagcctta 540
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aggtttttaa attcagtttc ttttctgggg atttaacatg gaaggacttg gagggcaaat 660
ggscagtgat ttggaaaarg gaaaaacaaw tcatttcatt taaaattatt caataaccat 720
tgccagcatt tgggattctg agtgctgttt atgaagccct ttcattgata taatttcac 780
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aa 2012

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&lt;210&gt; 104

&lt;211&gt; 1094

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (26)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 104

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ccccamacgc tgctcccgc ccaccctgcc cgtgctgctg ctctgtgcct gctgtcagag 840
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aaaaaaaaaa attc 1094

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<210> 105

<211> 2297

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (30)

<223> n equals a,t,g, or c

<400> 105

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aaaggaaggc caggggttca cataggcccc cagcgagttt cccaggaggt agagggatgc 180
gaggctaaca agttccaaaa acatctgccc cgatgctcta gtgtttggar gtgggcagga 240
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aacagtttgc ccaggaaactg ggggatcata tatgtcttag tggacagggg tctgaagtac 2160
actggaattt actgagaaac ttgtttgtaa aaactatagt taataattat tgcattttct 2220
tacaaaaata tatttttgaa aattgtatac tgtcaattaa agtgtttttg tgtaaaaaaa 2280
aaaaaaaaaa actcgta 2297

```

<210> 106

<211> 442

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (419)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (423)

<223> n equals a,t,g, or c

<400> 106

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tatgggcccgc aagaagaaga agcagctgaa gccgtggtgc tggattgta atagagattt 180
tgatgatgag aagattctta tacaacacca aaaagcaaaa cattttaa atgcataatg 240
tcataagaag ttgtacacag gacctggctt agctattcat tgcatgcagg tgcataaaga 300
gacaatagat gctgtaccaa atgcatacct gggagaacag acatkgattg gaaatatatg 360
gtatggaarg tattccagaa aaagatatkg atgaaagaag acgacttctt ggaacagana 420
acnccagaga gtccaaaaaa ag 442

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<210> 107

<211> 1019

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (995)

<223> n equals a,t,g, or c

<400> 107

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tgccggtggt tttgtcggtt gcggcgccgg cggcgccggc agcggcggag cagcaggctc 180
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ccaggaatgt gctgctgttc ctgcaggaca agctgagcat tgaggatttc acagcatatg 360
gcggtgtggt tggaaacaag caggacagcg ccttttctaa cctagagaat gccctggacc 420
tggccccctc ctcactggtg cttcctgccg tcgactggta tgcagtcagc actctgacca 480

```

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cttacctgca ggagaagctc ggggccagcc ccttgcatgt ggacctggcc accctgcggg 540
agctgaagct caatgccagc ctccctgctc tgctgctcat tcgcctgccc tacacagcca 600
gctctggtct gatggcacc agggaagtcc tcacaggcaa cgatgaggtc atcgggcagg 660
tcctgagcac actcaagtcc gaagatgtcc catacacagc ggccctcaca gcggtccgcc 720
cttccagggt ggcccgatgt gtagccgtgg tggccggagg gctaggtcgc cagctgctac 780
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ggatcctggt ctggggcccaa aacttctctg tggcgtacaa ggaccagtgg gaggacctga 900
ctccctcac ctttggggtg caggaactca acctgactgg ctccctctgg aatgactcct 960
ttgccagcty tctactgacct atgaacgact ctttngtacc acagtgcacat taaagttat 1019

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<210> 108

<211> 711

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (642)

<223> n equals a,t,g, or c

<400> 108

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ttgttctctt tgaccatttt cctataatga tgttgatgtt caacacctgg actgaatgtc 120
tgttctcaga tcccttggat gttacagatg aggcagtctg actgtccttt ctacttgaaa 180
gattagaata tgtatccaaa tggcattcac gtgtcactta gcaaggtttg ctgatgcttc 240
aaagagctta gtttgyggtt tcctggacgt ggaaacaagt atctgagttc cctggagatc 300
aacgggatga ggtgttacag ctgcctccct ctcatgcaa tctggtgagc agtggtgag 360
gcggggagcc agagaaactt gccagttata taacttctct ttggcttttc ttcactctga 420
aaacaaggat aatactgaac tgtaagggtt agtggagagt ttttaattaa aagaatgtgt 480
gaaaagtaca tgacacagta gttgcttgat aatagttact agtagtagta ttcttactaa 540
gacccaatac aaatggatta tttaaaccaa gtttatgagt tggttttttt cattttcyat 600
ttgtatttta ttaagagtgc ttttcttatg gtgatttttt tnaattgcga tttgatatgg 660
tttgccata tggcccacc caaatcccca tcttgatta taatcccat g 711

```

<210> 109

<211> 743

<212> DNA

<213> Homo sapiens

<400> 109

```

tcgagttttt tttttttttt ttttactttt taaaatttta ttgatgtacc acctgatcaa 60
agcatgggat attttaatag tattatacat aatattttta catagaaaac tttacatagc 120
atttcatatt atataattct gcttattctt tcaaaaattt atacatccat tgggcaagga 180
atggttttca ttaaattacc aatattaaat gcacttaatc atttgttata ggttaaacca 240
aagtaactat taactaactt ttaggcattt taaggaggta aaacatacat tttacacata 300
aatatttgat gcaaatatgc agataaaatt ttttaaaaat tagaactctg agtaaaacac 360
ctttgataga ttatattgtt ttgttttgag agcaaggatt tccagatatg ttcatctttt 420
aaaacactca gctttgggtt ctttgtttcc caaactgcaa agctgctgat aacaaaactc 480
caggattcca tgtgagttca gctatgtcta ctttaacaca aatattaaaa cagaattcag 540
raaatgcagt attaaggatc cagcttctat tgaaaccaat atccatttgc atcataacaa 600
caaacatttg aatgagatgg tcacacttgc acttatcagc aggttccttt aataacaaag 660

```

actactaaat gtatatacctt aatcacaaaa gaacaacaaa aaaaatacag gttttttttt 720  
 ttccatttcg tacaaaaagtc acc 743

<210> 110

<211> 795

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (645)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (737)

<223> n equals a,t,g, or c

<400> 110

tnctaaatat cagatgtcctt tgatgtaagg gtagggaatg gagaaatatt ttcaattgtg 60  
 tatttgtatt acaaagaact tgaaatttac tttcttagtt gattatatta aatgatgtat 120  
 atattatatg tggtttataa gctcaacact ggccattttt ttagttttat tgtaaattgg 180  
 tatttttctta tgtttaatta taatagatct ggctttttct ggatagcata aagatcactg 240  
 aactatatat atataagara caagagttct attttagcac aaaggcattt tatattattt 300  
 attgaatcca taagtttggt ttcgtcaaaa acattccata ttattttctgc tcctttttat 360  
 ttgtatagtt tgttatttaa agaaatggca gtccttcctg ttcttaatac aataaaattg 420  
 aaataatgca cctagtaatg tggccgacat ctcttctcac caccatggac tgttttcaac 480  
 aacagttgat ctcttggtct gtgctgagag gcgcatgcat gtctttcgtc acgtcgggca 540  
 gcacacctgc tgtgaaatac tgctttcatc tacctcttca gaaggcttct tgcttggtga 600  
 caagtaccgc aaaggcttta ttctggactg gctatctcat aaaanggatt tctgtaagac 660  
 tttgcagtgt cattccctca gaaccyaggt ttgtttctaa agccacggta ttgtccrrgr 720  
 rccctgtgt ktggggncag gtagctatcc ctcccatgct attagtaatc ctttaggatt 780  
 ttaaggtaca atggg 795

<210> 111

<211> 1332

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature



<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1194)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1237)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1241)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1300)

<223> n equals a,t,g, or c

<400> 111

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ncgggncagc agctcccagt gtgacctgac aaaaacacgt aggggcaggg acggtcccca 60
ccccagggga cacaaccctt ggtcttgac cagtagagga cacggagggt tcagaccctt 120
cctcagaccc tccccacatc tgaaactgcc tcccccaac caccagcagc agcaggggcc 180
tcctcccca ccagctctcc ccacagggcc cctcagcatc atggagaccc gcagcggggc 240
ttagccaccc ctcaaaccca gggccccctg gcacctgggc tctggcctgt tttcttgcc 300
agagccccac tttcctaact cgtgctccct tccgccttct tttccgtact gtgaagaaag 360
aactctccac ccagctccc accctgccct ggcctgggtg gaggaactgt gcctccatcc 420
ccagaagaaa cagccccctc tgetgctggg gtgggactgt ctgtgtgcc tggtgggggtc 480
cgtgtgagca ggcccacctg gctccagacc cgcccccaac ctgagacaga accaggctga 540
gccaggcctc cacccccacc ccogtttgct gggggctcct ccagccgcc ccatggraag 600
aggcctggta ccgscacacc cacagaggtc tgtgccaggt gcgcttctgc aggtggagcc 660
aagctctccc tgaggccaga ggcggggcct gggccgggag ccaggggaa ggccaggctg 720
gaccccggtc ycacaccac atccagcctg caggcctctc tgcagtcctc tcacctccc 780
tmagctccc ttcctctgca gtcacctca gctcccttc cttgcccgcc tctcccccg 840
ccgccccacc agttaaacgg atgaccaaag acctttctta tgccggaagc aaaaacaaa 900
actttttgtt ggctttttcc tttgtsgcct cccagcacc tgccctccca gtctccacc 960
ccggccccag gctggaagcc tccctccact taagttattg ttttaacca agttttacag 1020
tgtctgttgg tggccaagac cttctctctc caccctcct ccatccacc tgaggaccct 1080
ggggctcagt ggaggcaggg coctgcccc cttcccttcc cggctcctgg ccagcctgg 1140
ggggaaggga raaaggagg gggaraaagc ggggttcttc acccctcag ggantggggc 1200
acggggagcc ctttcttccc tggaccctgg ggcttgnttc ntgggggggc tcttccaaga 1260
accctcttc taagggaacc aagtttcacc cgctcgtggn tgggggatgt tgggatttct 1320
aaggcaaaag ag 1332
```

<210> 112

<211> 743

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (53)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (272)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (275)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (278)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (590)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (618)

<223> n equals a,t,g, or c

<400> 112

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ttgctggtct gatccatgca catggccagg ctgctaggct cttgtgctgg gcnggaagtc 60
ggtgcggatg gccagctcca ggatgaccg ccgggaccg ctcacaaata aggtggccct 120
ggtaacggcc tccaccgacg ggatcggtt cgcacgccc ggcgtttggc ccaggacagg 180
gccacgtggt cgtcagcagc cggaagcagc agaatgtgga ccaggcggtg gcacgctgca 240
rggggagggg ctgagcgtga cgggcacctg tncantgntg gggaaaggcg aggaccggga 300
gcggctggtg gccacggctg tgaagcttca tggaggtatc gatatcctag tctccaatgc 360
tgctgtcaac cttttctttg gaagcataat ggatgtcact gaggagggtg gggacaagct 420
ctggatggac aaggaaaaag aggaaagcat gaaagaaacc ctgcggataa gaaggttagg 480
cgagccagag gattgtgctg gcacgtgtc tttcctgtgc tctgaagatg ccagctacat 540
cactggggaa acagtgggtg tgggtggagg aaccccgctc cgcctctgan ggaccgggag 600
acagcccaca ggccagantt gggtcttagc tcctggtgst gttcctgcat tcamccaytg 660
gscttttccc acctygytc amcttactgt tcacctcatc aaatcagttc tgccctgtga 720
aaagatccag cttccctgc cgt                                     743

```

<210> 113

<211> 1690

<212> DNA

<213> Homo sapiens

<220>  
<221> misc feature  
<222> (1659)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1664)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1676)  
<223> n equals a,t,g, or c

<400> 113  
aattcggcac cactcagtc cactcagtc cactcagtc ggccaggagc acaccggcca cgtccgcttc 60  
ttggctgcag tccagctgcc agatggcttc aacctgctct gccaacccc accacctccc 120  
ccagacacag gccccgagaa gctgccatca ctggagcacc gggactcccc ttggcaccga 180  
ggccccgccc ctgccaggcc taaaatgctg gttatcagtg gaggtgatgg ctatgaggac 240  
ttccgactca gcagtggggg cggcasagca gtgagactgt gggtcgagac gacagcacia 300  
accacctyct cctgtggagg gtgtgacct gtctgccgtg gcccaggact sgcccgccca 360  
cctgccttca gcctgcttgc ctctccctag cccacacgca gactttgacc aggagtatcc 420  
agccaggggg cactatgtgc kgcrtgggct ctgcttgtct tcgcggaaga ttcttgatgg 480  
aacaccact ggccagccag gccatggctt ctcccgacc tctggctgcc ccggtgcttc 540  
cagtcagat cgggtggggg acatgtgggc tgaccaggac ctctgacct ggagcttcta 600  
ccaaagacac agctgggtct ggacccacg ggsstgggga gggccatgtg caatatttg 660  
agggttttct ggagggcagc aggaaggctg ggggaattccc catgtacagt atttatgtt 720  
cttttttagat gtgtacctt ccaagcactt atttatgcag tgacctggtc acctgggtg 780  
ggggtgattt gaggaatga catgaggaaa agaaacctat tcctgccctg gggaccaccc 840  
tgggactcta accaagcctt cctggaggga cccatgcgcc cctgagcccc attccattca 900  
tacagacaca cactgacgca cactgcatgt ccaaggccct aaacattgcc cgttgacata 960  
aactttccag ggccccagcc tgatggggct gccctcagtc ctctagatca agatgctgac 1020  
tattaggggg cagtgaattgc catctgggga cctgtcaggc tttgtcattt ccagtttgt 1080  
tggtggtgcc tttagtgggt ccctaatttg ggaacactga tggggccttg gacagggctt 1140  
tctctcaggt aggaagaaatg ggcccatgat ctctcacag tcgccccag tccttggtcc 1200  
tgcttccctg tgtctcatgc actggcacat atggtcacct tggagggcag acctaggagc 1260  
ccctctgacc actgaatccg tctccacacc ccttctgcca agggaagccc cttcagggaag 1320  
gaccccccaa agctgagggg ctgaatgtag ccttttcaac agagaaggct ccacttgag 1380  
agcagcctct acctgacccc ctggaccaca gagagccact ctgacctca gccccctgc 1440  
ttcttcagct aaaactccaa aggtttggtt tcagatgggg tttgttttgt tctgtttggt 1500  
tttggttttg tttggggttg gtgggtcatt gcggtcttag attatgtttc tcttgctacc 1560  
aaacagtcag gtattaaactc tctttggatg atgaagttaa aagagtcaat aaatagaaac 1620  
accagatgac tgcaaaaaaa aaaaaaaaaa aaaaaaana aanaaaaaaa aaaaanaaaa 1680  
aaaaaaaaa 1690

<210> 114  
<211> 620  
<212> DNA  
<213> Homo sapiens

&lt;400&gt; 114

```

ctctgggcct gggctctgggg gagaggggtg ccagggagac tcagctctcc ttgggggctg 60
gccagctgac tgaggggtaca caggattggg tctagacctt gatgcctggg tggagggccc 120
ttgtaagggg ccatagcctc ttcaggacca actggaggga gagttaggaa acaccagctc 180
ctgcctgggg cagtgaggga atgggagcag ctgtgggcgc ctcatttcag gcaagtcctc 240
cccaaacctt cagatgcagt gagacctggc cttcctgttg tgcttttcag actttgtttt 300
cagaatgctt ttatctcgag tgtgcccttc ggccctcaca agagcccctg gggagtaggt 360
ggtggcctgt gccgtcatcc ccatttcaaa gcaggagct gaggtcctgg gaggggaaag 420
tgcttgctg aggtcccact gtgttagtg gtgggcagga ctggaactcg gttctccaac 480
agcccagagc tactctttt acaccagag gtggagcagg tggcttaggg ggtggttatg 540
tacttcacaa gccaatccc ttcagccagg agctcctggg tgcatttcg tgcagaaac 600
agtaccgagt cccaccccct                                     620

```

&lt;210&gt; 115

&lt;211&gt; 542

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (392)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (412)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (511)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (521)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (535)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 115

```

tcgacccacg cgtccgcttc tcggcccctt gtagaacctc tgtcaggttc agcctactcg 60
cctctactcc agcctccact ccggcctcca ccatgtccgt caggtgaccc agaagtccta 120
caagggtgcc acctccggcc cccgggcctt cagcagccgc tcctacacca gcgggcctgg 180
ctcccgcatc agctcgtccg cttctctccg ggtgggcggc asttccgggg gggcctgaac 240
agcagcatga gtgtggtcgg gggctacggc ggccggggccg gggtatgggg ggcacacgg 300
ccgtctcagt gaaccagagc ctgctgagcc cccttwaagc tggaatkgga tcccaacatc 360

```

```

caagctgtgc gcaacccagg agaaggagca gntcaagacc ttcaacaaca anttggcttc 420
gttcatcgac aagtgaagca ctggagcagc agaacaaatt tttggagacc aattggagct 480
tcttaaagca gcagaagacg cgcggagAAC ntagacaaat ntctgagagt aaatnagaac 540
tt 542

```

```

<210> 116
<211> 525
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (420)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (424)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (517)
<223> n equals a,t,g, or c

```

```

<400> 116
aattcaaccg tcgttatccc aaaattcagt ttctactttc caccggccct tccggcacta 60
tgctggatgg tgtactggag ggaaaactga atgcggcggt tattgatgga ccattaacc 120
atactgccat cgacgggata ccggtatacc gcgaggaact gatgatcgtc acgccacaag 180
gatatgcgcc agtaaccctg gccagtcagg ttaatggcag taacatttat gccttccgcg 240
ccaattgttc gtatcgtcgc cacttcgaga gctggtttca tgctgacggt gccgctccgg 300
gaactatcca tgagatggag tcttatcacg gaatgttggc ctgtgtgacg gcaggagcag 360
gcattgcgct tattccgcgc tctatgctgg aaagtatgcc ggggcatcac cargttgaan 420
cgknggccgt tagctgagca atggcggttg ttaacaacct ggctggtctg gccgtcgtgg 480
tgcgaaaaaa cgttccgctc gaaggggggc ccggtancca attcg 525

```

```

<210> 117
<211> 728
<212> DNA
<213> Homo sapiens

```

```

<400> 117
aacgagcgcc tgctaggatc agcgggtggtg gttccgcgat ggtaggcggc ggcggggctc 60
gcggcggcct cctggagaat gccaaccccc tcatctacca gcgctctggg gagcggcctg 120
tgacggcagg cgaggaggac gagcagggtc ccgacagcat cgacgcacgc gagatcttcg 180
atctgattcg ctccatcaat gaccgcggagc atccactgac gctagaggag ttgaacgtag 240
tagagcagggt gcgggttcag gttagcgacc ccgagagtac agtggctgtg gctttcacac 300
caaccattcc gactgcagc atggccaccc ttattggtct gtccatcaag gtcaagcttc 360
tgcgctccct tcctcagcgt ttcaagatgg acgtgcacat tactccgggg acccatgcct 420
cagagcatgc agtgaacaag caacttgacg ataaggagcg ggtggcagct gccctggaga 480
acaccacact cttggagggt gtgaatcagt gcctgtcagc ccgctcctga gcctggcctt 540

```

```

tgaccctca gctgcatac tggatcctg gtccagctc ctgccagggc tgttaccgtt 600
gttttcttga atcactcaca atgagaaact aacattttgc tttttgtaat aaagttaatt 660
tatattcarw tcaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa acccgggggg 720
gggcccccc                                     728

```

```

<210> 118
<211> 948
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (920)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (944)
<223> n equals a,t,g, or c

```

```

<400> 118
agaagtacgg acccctgaag cccctgccac agaccccgca cctggaggas gacttgaagg 60
aggtgctgcg ttctgaggct ggcacgaac tcatcatcga ggacgacatc aggcccgaga 120
agcagaagag gaagcctggg ctgcggcgga gcccatcaag aaagtccgga agtctctggc 180
tcttgacatt gtggatgagg atgtgaagct gatgatgtcc aactgcccc agtctctatc 240
cttgccgaca actgccctt caaactcttc cagcctcacc ctgtcaggta tcaaagaaga 300
caacagcttg ctcaaccagg gcttcttgca ggccaagccc gagaaggcag cagtggcccc 360
gaagccccga agccacttca cgacacctgc ccctatgtcc agtgcctgga agacgggtggc 420
ctgcgggggg accagggacc agcttttcat gcaggagaaa gcccggcagc tcctggggccg 480
cctgaagccc agccacacat ctcggaacct catcttgtcc tgagggtgtg aggggtgtcac 540
gagcccattc tcatgtttac aggggttgtg ggggcagagg ggtctgtga atctgagagt 600
cattcagggtg acctcctgca gggagccttc tgccaccagc cctccccag actctcaggt 660
ggagcaacag ggccatgtgc tgccctgttg ccgagcccag ctgtgggcgg ctccctggtgc 720
taacaacaaa gttccacttc cagggtctgcc tggttccctc cccaaggcca caggagctc 780
cgtcagcttc tcccaagccc acgtcaggcc tggcctcatc tcagaccctg cttaggatgg 840
gggatgtggc caggggtgct cctgtgctca ccctctcttg gtgcattttt ttggaagaat 900
aaaattgcct ctctctttgn aaaaaaaaaa aaaaaaaaaa gggnggcc 948

```

```

<210> 119
<211> 211
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (123)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (125)

```

<223> n equals a,t,g, or c

<400> 119

```
tcgacccaacg cgggtccgctt ggtgggggtcg gctgctttct cgcgtttccc cccaaccccg 60
tccggcctcg cccagcgctt ccacgcgga ccaactgcc aaggcgcggc gcggcgctga 120
gcngngcgag tgtgaggaaa ccgccgcctc agccgagcgc gcggggccgc ccagggcgtt 180
agttttcggc gcgcagtcgc ggtcccccg c 211
```

<210> 120

<211> 1308

<212> DNA

<213> Homo sapiens

<400> 120

```
tcgacccaacg cgtccggact gttctaagt agttcgggtg ggggagcttc acgaggggag 60
gctgctctgt gaaggaaccg cctttctctc cgcgtgtctc acccttttct ccccatatct 120
gtttggacat gagctgaggg cacggctcgc ggcggtcagc ctgttcgcag ctacggcgag 180
gagggcgcg attgycctt gttgccgctc cgttagtggt ccgcgtccat tccgcgcggt 240
gtcccgattt taggggtagg gagaagtgtc agcttcaggc atcgcgaggc gtggcgggcc 300
catggccccg ctgggaggcg ccccgcggt ggtactgctg ttcagcgga agaggaaatc 360
cgggaaggac ttcgtgaccg aggcgctgca gacgagactt ggagctgatg tctgtgctgt 420
cctccggctc tctggtccac tcaaggaaca gtatgctcag gagcatggct tgaacttcca 480
gagactcctg gacaccagca cctacaagga ggcctttcgg aaggacatga tccgctgggg 540
agaggagaaa cgccaggctg acccaggctt cttttgcagg aagattgtgg agggcatctc 600
ccagcccatc tggctggtga gtgacacacg gagagtgtct gacatccagt ggtttcggga 660
ggcctatggg gccgtgacgc agacggtccg cgttgtagcg ttggagcaga gccgacagca 720
gcggggctgg gtgttcacgc caggggtgga cgatgctgag tcagaatgtg gcctggacaa 780
cttcggggac tttgactggg tcatcgagaa ccatggagtt gaacagcgcc tggaggagca 840
gttgagagaa ctgatagaat ttatccgctc cagactttag tctactaggt ctaggagtga 900
gctggggcct gctgaggtgg ggggtgggct gactctgcaa aatgggggtg tcccccgatc 960
ctggccgagg tgaggaacag acaggggggg tctagattct gagggggtg gtggatattg 1020
ggcaaggcag gaaacctctg gagacctcat tttctccatg gggaagacag ccatgctctt 1080
caggaggaga ctccaagggc aaaggagggt gtcttggtg tgcttgaagg cgaaacctg 1140
ccatatcccc agtgccagtc ccctcagcct gtggtggcct tgcacctga ctggatgttc 1200
tcagccctt gttctgggca agaaccaga gtcctccagt gtggatacta ataaacctct 1260
tggagcacia aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaagg 1308
```

<210> 121

<211> 2516

<212> DNA

<213> Homo sapiens

<400> 121

```
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<210> 122

<211> 1139

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1053)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1124)

<223> n equals a,t,g, or c

<220>



<221> misc feature

<222> (1125)

<223> n equals a,t,g, or c

<400> 122

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<210> 123

<211> 2114

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1966)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2039)

<223> n equals a,t,g, or c

<400> 123

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aactacctac agag 2114

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&lt;210&gt; 124

&lt;211&gt; 583

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 124

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ccatcaacct cacctgcagt gcactggcct gggcagtgct ccccagact tccagctcca 480
gccagtggcc tgctgaggtc aggctccact atggtgggct cactggccct caaacctcca 540
taccctccts ggtcaataaa ggcctaaat tgcaaaaaaa aaa 583

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&lt;210&gt; 125

&lt;211&gt; 1987

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (7)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (14)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (517)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1960)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 125

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cggtgat 1987

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<212> DNA  
<213> Homo sapiens

<400> 126  
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<210> 127  
<211> 1234  
<212> DNA  
<213> Homo sapiens

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<222> (857)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1204)  
<223> n equals a,t,g, or c

<220>

<221> misc feature  
 <222> (1226)  
 <223> n equals a,t,g, or c

<400> 127

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<210> 128  
 <211> 863  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (840)  
 <223> n equals a,t,g, or c

<400> 128

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<210> 129

<211> 1238

<212> DNA

<213> Homo sapiens

<400> 129

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 atgaggtaga gcagaatgca gaccacgccg ctggatgccg agagaccctg ctctccgagg 540  
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 cccaggtact tgagttttgg aaaagctgac tcacgcccac ccattctaca gcccttccct 720  
 ggggacagtc gcttccgcct tgacacctca ctctcagttg aataactcaa gcttggtcat 780  
 cttcagactc gaattcttga gtagaccagc acggcttagc ccaagtctag ttgcagctgc 840  
 ctccgcaagt cccatttgc tcaggcagcc ctgaatgggc ctgtttacag gaatggtaaa 900  
 ttgggatttg aaggaatata gcttccagct tcataggcta gggtgaccac ggcttaggaa 960  
 acagggaaaag aaagcaaggc ctttttctg ctttcccg gatctgtcta ctccacctcc 1020  
 acgggggagg ccagtgggga agggctgtca cctcttcccc atctgcatga gttctggaac 1080  
 tctgtcctgt tggctgcttg cttccagctc cccccaatct ccacgcagc gggttctctc 1140  
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<210> 130

<211> 379

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (373)

<223> n equals a,t,g, or c

<400> 130

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 gcagcraagg acccaggggc agagccacgc tggggatgga ccccttcgag gacacgctgc 180  
 ggyggctgcg tgaggccttc aactgakggc gcacgcggcc ggccgagttc cgggctgcgc 240  
 actccagggc ctgggccaact tcctcaaga aaacaagcar cttctrcgm acgtgctggc 300  
 ccaggaactg cataagccag ctttcgaagg cagacatatc tgagtcatcc tttgccagaa 360  
 cgaggttgaa tangctctt 379

<210> 131

&lt;211&gt; 1786

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 131

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gcgtcgctcg ggccccgcca tggccgtcac catcacgctc aaaacgctgc agcagcagac 120
cttcaagatc cgcattggagc ctgacgagac ggtgaagggtg ctaaaggaga agatagaagc 180
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aataaagttt taaaaactaa aaaaaaaaaa aaaaaaaaaa aaaaaa 1786
```

&lt;210&gt; 132

&lt;211&gt; 974

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (165)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (853)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (963)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 132

```
ggcagctaac ctcctcatcc ccgctgtggg ttctagcctc tctgaagccc tggacttgat 60
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tgccacagac cccgcacctg gaggaggact tgaaggaggt gctgcgttct gaggctggca 780
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ggcggagccc atncaagaaa gtccggaagt ctctggctct tgacattgtg gatgaggatg 900
tgaagytgat gatgtccaca ytgcccaakt ytttatcctt ggcgacaayt gccccttgca 960
aanttttcca gcct 974
```

&lt;210&gt; 133

&lt;211&gt; 634

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 133

```
attcggcacg acgggtgaac ctggccacag ctcaccctgg aacagccaca atgtctgccc 60
cttagagaag aaccctgaaa tcagaccagt ttttgcggcc tcccccttc ctctctgtta 120
cagtgccctt tccaggcctt aagagaagta aaacttagct gcagcgtcag gaggtggacc 180
ccagagtgtg agtggcacgc ttctctgtga acccgctcct accatgtttg ccacatctgg 240
ggcagtgcca gcggggaagc cttactcgtg cagcgaatgt ggcaagagct tctgctacag 300
ctcagtgctg ctgcgacatg aacgagctca cggcggtgac ggccgcttcc gttgcctaga 360
atgcggtgag cgctgtgcac gggctgctga cctccgagcg cacaggcgca cgcatgctgg 420
ccagaccctc tacatctgca gtgagtgcgg acaaagcttc cgccacagcg gccgtcttga 480
cctacacttg ggcgcacacc ggcagcgatg ccgcacttgc ccctgccgca cwtgcggccg 540
gcgcttcccg cacctcccg cgctgctgct acaccggcgc cgccagcatc tgccagagcg 600
gccccgscgy tgcccgtgtg gcgycctcag gttt 634
```

&lt;210&gt; 134

&lt;211&gt; 1855

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1818)

&lt;223&gt; n equals a,t,g, or c



&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1845)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 134

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ggcgaggggc tgcagtgcgt ggtgcccttc ggggtgccag cctcggccac ggtgcggcgg 120
cgcgcgaggg ccggcctctg tgtgtgcgcc acagcgagcc ggtgtgcggc agcgacgcca 180
acacctacgc caacctgtgc cagctgcgcg ccgccagccg ccgctccgag aggctgcacc 240
ggccgcgggt catcgtcctg cagcgcgag cctgcggcca agggcaggaa gatcccaaca 300
gtttgcgcca taaatataac tttatcgcgg acgtggtgga gaagatcgcc cctgccgtgg 360
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ggtctgggtt tattgtgtcg gaagatggac tgatcgtgac aaatgccac gtgggtgacca 480
acaagcaccg ggtcaaagtt gagctgaaga acggtgccac ttacgaagcc aaaatcaagg 540
atgtggatga gaaagcagac atcgactca tcaaaattga ccaccagggc aagctgcctg 600
tcctgctgct tggccgctcc tcagagctgc ggcgggaga gtctgtggtc gccatcgaa 660
gcccgttttc cttcaaaac acagtcacca ccgggatcgt gagcaccacc cagcgaggcg 720
gcaaagagct ggggctccgc aactcagaca tggactacat ccagaccgac gccatcatca 780
actatggaaa ctggggaggc ccgttagtaa acctggacgg tgaagtgatt ggaattaaca 840
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```

&lt;210&gt; 135

&lt;211&gt; 917

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (913)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 135

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ggttttttgc gcgtgcatat ggcggtggcg ggtgggggga agggggagat cctgctgcac 60
```

```

tggccgcccc agttgggggg cgagctcggt ggtgacgcgc ggccctcacg tgaccarag 120
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ggggggcccc gwnccca 917

```

<210> 136

<211> 1271

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1236)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1255)

<223> n equals a,t,g, or c

<400> 136

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atccgcgggc tggccaykc catccgcctg ctccctggaat acacagactc aagctaygag 180
gaaaagaagt acacgatggg ggacgctcct gattatgaca gaagccagtg gctgaatgaa 240
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tccttcctgt tagtggtgt gtctgcttta aargcctgcc tggccctcg cctgtggagc 1080
tcagccccga gctgtccccg tgttgcatga aggagcagca ttgactgggt tacaggccct 1140

```

```

gctcctgcag catggtccct gccttaggcc tacctgatgg aagtaaagcc tcaaccacaa 1200
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<210> 137

<211> 2017

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (295)

<223> n equals a,t,g, or c

<400> 137

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tgaattggtt ttttcatgga ccaaactttt ttttgtactg tcccttatt gatgttacc 1920
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<210> 138

<211> 937

<212> DNA

<213> Homo sapiens

<400> 138

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aagcaaaatg gggaggggga ggaagcagtg actttttttt ggtaattatg cgcttttttt 360
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cacacaagct tctgtgttca gttgaattgt aactgctttt tgtatttgga gagagtgact 600
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tgccctcctc ccagtgtct cccaggtgcc agacccaaaa gcttttccta cagtgatacc 780
ctttattttt acttcccctt gactcatatg ttttaacatg attttaacaa actgcactta 840
ttaagaaatg tgtttgccct gttttgtttg gtttcgtttt gttttctttg aataaatgac 900
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<210> 139

<211> 2759

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (171)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1654)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2743)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2744)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2746)

<223> n equals a,t,g, or c

&lt;400&gt; 139

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&lt;210&gt; 140

&lt;211&gt; 1241

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (317)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 140

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```

&lt;210&gt; 141

&lt;211&gt; 3405

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1569)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 141

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&lt;210&gt; 142

&lt;211&gt; 2268

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2169)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2196)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2232)

<223> n equals a,t,g, or c

<400> 142

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&lt;210&gt; 143

&lt;211&gt; 1757

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 143

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&lt;210&gt; 144

&lt;211&gt; 1062

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (52)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1056)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 144

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&lt;210&gt; 145

&lt;211&gt; 1030

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 145

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gatctcaatc acagacaaca cccaatccc acacaacggc tgccgccccca ggaaggctcg 600
gaagctgtga tgggaaggag gcctgcactt ggacctgacc tcaagcctca gctccagtgg 660
gaccttgtaa aatgctccct gtcagagctc tccagaatat gcttggttga gatccttcag 720
gcagtaaggg agagttttgc ctccctacac agtggccttt gcttgcacct ccagctggag 780
atgggtgtgc cccagaagta agctttgcat ctcttacaag aggggagcta caggggcagc 840
cgtgcctagg cccaaactct gctctgagaa aataaatatc tgtaccacct gtcataat 900
tgagattttt tgctttcaga gttacgtaat tcctaattcc tcttgaaaaa gagagtgtga 960
aatgaggtga ggcctcagat gaaagtaaaa tataaatgtg agttgctatt taccagaaaa 1020
```

aaaaaaaaa

1030

&lt;210&gt; 146

&lt;211&gt; 814

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 146

```
ggcacaggcc aggtcgtgcc agcatccgcc ggacgccgga agtggttctc cgcccctgcc 60
actgggcat ggagactgtg gcacagtaga ctgtagtgtg aggctcgcgg gggcagtggc 120
catggaggcc gtgctgaacg agctggtgtc tgtggaggac ctgctgaagt ttgaaaagaa 180
atttcagtct gagaaggcag caggctcggg gtccaagagc acgcagtttg agtacgcctg 240
gtgcctggtg cggacaagta caatgatgac atccgtaaag gcacgtgct gctcgaggag 300
ctgctgccca aaggagcaa ggaggaacag cgggattacg tcttctacct ggccgtgggg 360
aactaccggc tcaaggaata cgagaaggcc ttaaagtacg tcccggggtt gctgcagaca 420
gagcccaga acaaccaggc caaggaactg gagcggctca ttgacaaggc catgaagaaa 480
gatggactcg tgggcatggc catcgtggga ggcattggcc tgggtgtggc gggactggcc 540
ggactcatcg gacttgtgtg gtccaagtcc aaatcctgaa ggagacgcgg gagcccacgg 600
agaacgctcc aggagggcct gtccatcctc gctgtccttt ccctgttctc cccctgcccc 660
ccgtctctat cctctgtggc cttcagctaa tttctgtctc cctgagattc gtccctcagc 720
cccatcatgt gctttgggat gagtgtaaat aaaacggggc tgtggcttgg gaaaaaaaaa 780
aaaaaaaaa aaaaaaaaaa aaaaaagggg ggagg                                     814
```

&lt;210&gt; 147

&lt;211&gt; 2678

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 147

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cccacgcgtc cggatgaaca cgatgagaat aatgctgaag ctagtgtctga attatcaaat 60
gaaggggtaa tgaaccatag aagcgaggaa gaacgtgtaa ccgaaacaca gaaaaatgag 120
cgtgttaaga agcaacttca ggcattaagt tcagaattag cccaagccag agatgaaacc 180
aagaaaacac aaaaatgatgt tcttcatgct gagaatgtta aagcaggccg tgataagtac 240
aagactctgc gacagattcg acaaggcaat acaaagcagc gtatcgatga gtttgaagca 300
atgtgagagc tgttattttg catatatgtt cttcataagc tgaaccacca acagagaaaa 360
gcaggccttt gcagatatga tggaatgcat ccacacttgc caaagcactt acaccagttt 420
gactgtgcta gctaaaagac aaatttaagg ggagctcttc aacattaagg cagtatgata 480
tcatgcttgg ttttcttttt tcttttggtc cagggaatgg agaatggtgt tccattgcct 540
cttttcacat tttttttctt tttctttttt ttttctgttg aagattaaca ctaattatca 600
cgtctgacaa atgtgtatgt gtggtttcag ttctgtgtac attttaaagg ataatggtga 660
acattttaat gggtttccct tgccctttcc atatttaacc tatttccaca ttctctctca 720
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tcatacagat caggcagtgt ttaaaatgat ggtaggtagc acagtggaca gtctttgatc 840
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ctaggagagt ttactgatga aacagcctct gcaagatttt aaaagttttg ttcttttata 1140
gactgattta gaaaaacaaa tgattagtta aaaaaagaaa atatacattt gttggtaact 1200
aatgttattt tttaaaacct ggacctttcc tggtagggca gcatataara acatcagtgc 1260
ccgaggaggg gacaacaata ctacctcact actacatctg tgatgactgg ttgttcaaac 1320
```

```
acaatggagt gtgtaaggta tatgttttat aattcataac catagcctcg atcatcaaga 1380
aatactttcg aaatttcatt ttccttcaga atatcttaag agtgctaaat ttttaactgc 1440
ctttttgtcg agtcaaaactg tgggattctg atttgattta aaattgtaag ctccctcactg 1500
gtatactatc atcctggagg ggtgttgat ggctgagcaa gagagagaga gaatgagaga 1560
gagactgtgt gtgtgtgtgt gtgtgtgtgt actctgtgtg tgtatgagag agagaaatgc 1620
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cagctacttt ccatgttgta ttacacagtc aaatttacat ttatctatta aaattgccat 1980
tttattaaac attttcatgc acagtagatt caagtgtgtg ctgaaaatat ctctgtgtgt 2040
tttttgattt tgctgacttt aaaaggatta atctgggcag acattatgta aaagaaagg 2100
tgcgtttaat atattttttg aactttgtag gacaaaacat agctggttaa ccttgaagt 2160
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ttcctcattt tgaattatgt gcactaccat agctacatca gtttgataga gtattgaaaa 2400
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atccattttt aaggstgtgt gaatttttct aaacaagaac catttgcaat atggatttct 2520
tagagattaa accaattata acttattagc agtsgcgagc acatgttcat atagtcaatg 2580
taaaaataca ctaatgagta tttggtaaat cccagtaggc ttttaccatt agcataat 2640
tgtgtgtgac ctcgccgcg accacgctaa gccgaatt 2678
```

&lt;210&gt; 148

&lt;211&gt; 1028

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 148

```
ctgcctcagc ctcccagta gctgggatta caggcacaca ccaccacgcc cggctaattt 60
tttgtgtcct tttagtagag acggggtttc gctatgttgg ccagactggt cttgaactgc 120
tgacctcgtg atccgcccgc ctcggcctct caaagtgtg ggattctgtg tgttttgtgc 180
acctccactt taggtaatca tagggagcac atttacagga tggcttaata acatgaaaac 240
aggctagttt caagcaacag caatgtcggg tggaagcag gcgtcatttg ccttgaaaaa 300
agccttttga caacatacag gcattctttt aaaaccaggc tgaaacattt tattcccgag 360
acttaacggt gtgtttcctg tttcttaaac ctagcacctc tgtgtatttg aaaataatga 420
gacatctttc attggatttt ggaaaaattgt tccccatggg attctaacct cactacaaaa 480
tgagtgaag cttgattaag agttcttcca tatactagcc tccttggaag aagtgatcag 540
aagggtgataa gaaggacaga aaggactatt ttaaagttgg actgaaggag aaaaaagcaa 600
aattcttgtt tcatcccaat tctagttaga acaaagttaa acccccgtaa tcttaaagag 660
aaaatctttg gaggttttaa ttaaacattt tatacattta agtcttgtt aatggtgctt 720
taagtgtcaa ttagcatgt aaaaggcttt gtacagacag gtaaaagttc catttctgag 780
tgatgaaatg taacacttct tcatctttaa cttgaaatca aaactatcag attttatttt 840
tgtataat 900
tcaataat 960
cataactaat ctgtaaatg taataaatat atttgaatt attaaatgtt aagtgatatt 1020
ttggttca 1028
```

&lt;210&gt; 149

&lt;211&gt; 1425

<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (647)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1359)  
<223> n equals a,t,g, or c

<400> 149  
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cagactcttg gcgccactcc cgggccgggc atgaacgggc cggcggacgg cgaagtggac 120  
tacaaaaaaa aataccggaa tctgaagcgg aagctcaagt tcctcatcta cgagcacgag 180  
tgcttccagg aggagctgag gaaagcgcaa aggaaattac tgaaggtgtc ccgggacaag 240  
agtttcctcc tagaccgact tctgcagtac gagaacgtgg atgaagactc ttccgactca 300  
gatgccactg catcatcaga taacagcgag acggagggga cacccaagtt gtctgacaca 360  
ccggccccta agaggaagag aagccctccg ctggggggcg cccctctctc ctccagcctc 420  
tccctgcctc cttcaacagg gtttccctt caggcctccg gggccccctc cccataacctg 480  
agctcgctgg cctcctcccg ctacccccca ttccttctg actacctggc cctgcagctg 540  
cccgasccca gtcccctrag gcccaagcgg gagaaacggc cccgmctgcc ccggaaactc 600  
aagatggcgg tgggaccccc cgaytgccct gtgggagggc cgctganctt ccctggccgg 660  
ggtttgggg stggggtcgg gamaaccctg amccccctt caccctctaa gatgcccccc 720  
cccacgatcc tgagcacggt ccctcggcag atgttcagcg atgcaggtag cggggacgat 780  
gccttggatg gagacgatga cctggtgatc gacatcccgg agtgaccgtg acatcacgcc 840  
atgcccacca cggcccgcgc cggcgccctc cccgtgccag cacacacgag tccagcttcc 900  
tcggagggtg ttattgatgc ccagctgcca tgctccggcc actgacacaa ccagaaaagg 960  
cgtaaacatg cacgggtgtc ccccaggagg gtgcaggggc cctgccttca aaccccgggc 1020  
ccctccaggg gacagttatt taaacgagtg gccgggagca tctgccacct gctggggagg 1080  
cagagaccct gcaatggcca cctctttaa agggcagctg tacagggcta gggtttttca 1140  
atgaagtttc tgtattaaag gagtggctct gggtttggtt tttgtcctt ttttttgaga 1200  
cattctcctc ctctgaacct cccctaattc gacctcctc ctgttggggg agagggacgg 1260  
ggcagcgtgg agaggcagga gtgaggagcg cgggggcctg gggccgggct ctgagcactg 1320  
cccgggtgtg cagatgatgg ggggtttgca tatttgcaang ggactagcga gtcaggcagg 1380  
aggtttgcac atgtgaatat agaactccgc agcccctcat gagca 1425

<210> 150  
<211> 780  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (285)  
<223> n equals a,t,g, or c

<400> 150  
gctgcgagaa gacgacagaa ggggagagcc aatggaaagg ggctgccgcg cggccgtaaa 60

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gagttttag agcagttcgg gtgcggtacg ttgcattccg gtaccggacg ccgagagcgg 120
tttgtctccg tctctggagt tgtaggcgag aggtgatcat gtccggtcgc gggaaacagg 180
gcggcaaatg gcgagcaaaag gccaaatccc gctcctcccg cgcgggacctg cagttcccgg 240
tgggccgagt gcacagactg ctgcgcaaaag ggaactacgc ggasnagtgg gcgccggggc 300
gccggtgtac ctggcgggcg tggtggagta ccttacggcg gagatcctgg agctggctgg 360
caacgccgcg cgtgacaaca agaagaccag gataattccc cgccacctgc agctcgccat 420
ccgcaacgac gaggagttaa acaagctgct gggcaaatg accatcgctc agggcgggcgt 480
cctgcccac atccaggccg tgctgctgcc caagaagacg gagagtcaga agacgaagag 540
caaatgacct tgacgccgcc ctgaggagc tggtccsc agcaaaggcc cttttcatgg 600
tcgtcccga atgcttttga atgtgctgga tgtcatggag ggccggtgac atctagcggg 660
gaggtgggcg gcgaggggtc cggcgggagc caataaagt ggtgaaaatc gtaaaaaaaa 720
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 780
```

<210> 151

<211> 1066

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1061)

<223> n equals a,t,g, or c

<400> 151

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gtgcgcgccc tgcgggagca actgaacagg ccgcgcgact cccagctcta cgcggtggac 120
tacgagacct tgacgcggcc gttctctgga cgcgggtgc cgggtccggg ctggggccgac 180
gtgcgcgccc agagccgcct cttgcagctg ctccggccgc tcccgtctct cggcctgggc 240
cgcctggtca cgcgcaagtc ctggctgtgg cagcacgacg agccgtgcta ctggcgccctc 300
acgcgggtgc ggcccgcacta cacggcgagc aacttgacc acgggaaggc ctggggcatc 360
ctgaccttca aagacgcctc tttttcttca tcagggaaga ctgagagcga aggcgcggga 420
gatcgaacac gtcatgtacc atgactggcg gctggtgccc aagcacgagg aggaggcctt 480
caccgcgttc acgcccggcg cggaagacag cctggcctcc gtgccgtacc cgcctctcct 540
ccgggccatg attatcgag aacgacagaa aaatggagac acaagcaccg aggagcccat 600
gctgaatgtg cagaggatac gcatggaacc ctgggattac cctgcaaaac aggaagacaa 660
aggaagggcc aagggcaccc ccgtctagaa tgccagaacc agcgggtggc cttaggggct 720
gtgaggcagt ggggacctta ttgatgaaag aaaccgtctt tgcgttacac ccgagtctgc 780
ctctcgagc agggagctca ccttcgcgca cgtgttctga ggtctgcat cttagggggg 840
agggtgggg caaatcgcca cctgtgcctt tcctctggcc ctgctgcccc cacacccaac 900
tccgagggcc cacgctgggg aaagcgggaa gcgctcgctc cctttcccc attagtgtc 960
tctctgcctg gatcccgga gaagctatga aagggaataa agagaaaaga artamaaaaa 1020
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa nccccct 1066
```

<210> 152

<211> 1649

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1543)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1579)

<223> n equals a,t,g, or c

<400> 152

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accccggtctc tccaaggagg tgtgacatca tcatcatctc tggccggaaa gaaaagtgtg 60
aggctgccaa ggaagctctg gaggcattgg ttcctgtcac cattgaagta gaggtgccct 120
ttgaccttca ccgttacgtt attgggcaga aaggaagtgg gatccgcaag atgatggatg 180
agtttgaggt gaacatacat gtcccgccac ctgagctgca gtctgacatc atcgccatca 240
cgggcctcgc tgcaaatattg gaccgggcca aggctggact gctggagcgt gtgaaggagc 300
tacaggccga gcaggaggac cgggctttaa ggagttttaa gctgagtgtc actgtagacc 360
ccaaatacca tccaagatt atcggggagaa agggggcagt aattacccaa atccggttgg 420
agcatgacgt gaacatccag tttcctgata aggacgatgg gaaccagccc caggacccaa 480
ttaccatcac agggtagcaa aagaacacag aagctgccag ggatgctata ctgagaattg 540
tggttgaaact tgagcagatg gtttctgagg acgtcccgtt ggaccaccgc gtccacgccc 600
gcatcattgg tgcccgccgc aaagccattc gcaaaatcat ggacgaattc aaggtggaca 660
ttcgcttccc acagagccga gccccagacc ccaactgcgt cactgtgacg gggctcccag 720
agaatgtgga ggaagccatc gaccacatcc tcaatctgga ggaggaatac ctagtgtacg 780
tggtggacag tgaggcgctg caggtataca tgaaaccccc agcacacgaa gaggccaagg 840
caccttccag aggtcttgtg gtgcgggacg caccctggac cgccagcagc agtgagaagg 900
ctcctgacat gagcagctct gaggaatttc ccagctttgg ggctcagggtg gctcccaaga 960
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aaattgttga cgctcttccc ccttcccag gtccgcaggg agcctagcgc ctggctgtgt 1140
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taaaccaagg tcatgagcat tcgtgctaag ataacagact ccagctcctg gtccaccg 1260
catgtcagtc agcactctg ccttcatcac gagagctccg cagccgtggc taggattcca 1320
cttcctgtgt catgacctca ggaaataaac gtccttgact ttataaaaagc caaacgtttg 1380
ccctcttctt ttccacctc cctcctgcca gtttcccttg gtccagacag tcctgtttgt 1440
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gaagacctg caatggacag caggaggcag gttcctggag ctngggggtg acctgagagg 1560
cagagggtga cgggttctna ggcagtcctg attttacctg ccgtggggtc tgaaarcacc 1620
aagggtccct gacctacct ccaactgcca 1649
```

<210> 153

<211> 660

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (35)

<223> n equals a,t,g, or c

<400> 153

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ccggaaattc ccgggtcgac ccacgcgkcc gcggnagwgc tcacacgtgt gctccctgcc 60
ctgctcctgg ccccttggcc ggccgggctg tttctggcca tgggtcgctc ccgcccggaca 120
ggcgcgacc gagcgactc tctagcccg cagatgaagg cgaacggcg cgcccgact 180
```

tggatgagat tcaccgcgag ctgcggcctc agggatccgc acgaccccag cccgacccaa 240  
acgccgagtt cgaccccgcac ctgccagggg gcggtctgca ccgctgtctg gcctgcgcga 300  
ggtacttcat cgattccacc aacctgaaga cccacttccg atccaaagac cacaagaaaa 360  
ggctgaagca gctgagcgtc gagccctaca gtcaggaaga ggcggagagg gcagcgggta 420  
tgggataccta tgtgcccccc aggcggctgg cagtgcccac ggaagtgtcc actgagggtc 480  
ctgagatgga tacctctacc tgacatggcc tgaagatgca gggcagagga attgcccattg 540  
gacagtgacg caaggactag gctgggaggg agcgtgccaa ccccttttgc ctctgggttt 600  
ggggagcgga gggcctcttc ttggtgccct gcccctaata aaggaactgg acaaagagaa 660

<210> 154

<211> 605

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (449)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (574)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (578)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (583)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (587)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (596)

<223> n equals a,t,g, or c

<400> 154

ggcagagctc caccttccat ccggcgccgg ctttcggcgc gacggtcgcc gcgttccatc 60  
gtcgcgcggc ctttcggggc cccgagcccg caatgtcggg cccaacgga gacctgggga 120  
tgccggtgga ggcgggagcg gaaggcgagg aggacggctt cggggaagca gaatacgctg 180  
ccatcaactc catgctggac cagatcaact cctgtctgga ccacctggag gagaagaatg 240  
accacctcca cggccgcctc caggagctgc tggagtccaa ccggcagaca cgcctggagt 300  
tccagcagca gctcggggag gccccagtg atgccagccc ctaggctcca agagccccc 360



```
accgggaccc aaccctgcct ccctgggcta ggctctggcc tgggcactca mcccctggct 420
tagacamctt ctcaagggtt ggccttcang gacccctggt gggctctgcct gcctgggcca 480
accttcctgc ctgggsctyc ccttggttam ctgggscagc cccaccaac tggcatgccc 540
tcctgggggc caaagaatgg ggcctgcaac ccancantt gcntgcnaa cccaanttcc 600
tgggg                                           605
```

<210> 155

<211> 695

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (173)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (499)

<223> n equals a,t,g, or c

<400> 155

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gaaccctaga aaaaaggatg cagtactaaa gtgtcattca ttcaaagcca ctccctctttt 60
ggtattccac ccattttcca gacggtgaca ctgaggtcca ggaagcagta gggacttgca 120
caaagccctt tgggaagcag gctgggaaac agtggaggga ggggtgccat tanccccaag 180
gagacacagg atctgggctc tktytttsgc cttcctccca gaatacgtg ccatcaactc 240
catgctggac cagatcaact cctgtytgga ccacctggag gagaagaatg accacctcca 300
cgcccgcctc caggagctgc tggagtccaa ccggcagaca cgcctggagt tccagcagca 360
gctcggggag gccccagtg atgccagccc ctaggctcca agagccccc accgggaccc 420
aaccctgcct ccctgggcta ggctctggcc tgggcactca ccccctggct tagacacctt 480
ctcaagggtt ggccttcang gacccctggt gggctctgcct gcytgggcca cccttcctgc 540
ctgggrcctc cccttgkcc tactggggcc agccccacc acctggcatg ccctcctggg 600
gccaaagatg ggcctgcaam ccacccattg sctgcccac caattcctgg gcgytcccca 660
wtytgcccag gcttgaatgt tcacatgaaa tgggt                                           695
```

<210> 156

<211> 780

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (289)

<223> n equals a,t,g, or c

<400> 156

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cggtgggctc gcgttgaggc tgcggtcatt gagggagcag gagctggatc cggcttccgg 60
aaggagctgg tgagcaggct gctgcacctg cacttcaagg atgacaagac caaagtgagc 120
ggggacgcgc tgcagctcat ggtggagttg ctgaaggctc tcgttggtga agcagcagtc 180
cgcggcgtgc ggcaggccca ggcagaagac gcgctccgtg tggacgtgga ccagctggag 240
aagtgcttc gcagctgctc tggacttcta gggatctcag ccgtggckna ggccaccccc 300
```

```
agaggagccc ctggtccaca gaagcaggcc ttgtgtttcc agcggcctct gataagaggc 360
aggggaaggam ctgaaggatt tggarttgat tcaaacaaga tctctgggag tctccagcct 420
gtgcagaagg ggcaggactg cagtgcactg cgggccttgg agtgtccagt ggggacactg 480
gtgtgggaag gggcagcacc tggggagtcc ctgcctctcc tccctgggac aatagtgtgc 540
atgccacccg gggtcctaca ggcagggtgt gggaaaggcc tggccagcag gtagcctgtg 600
tgtttgacaa acagcagctg gcagcgctgc ctccctgccca cattcctgcc acccgacatc 660
aaagctggcg tgtgaccttt ccagccatgc gatattcccc ttggaagatg cttccccagg 720
ctataaattt gttctcacia agcaacatca ataatcaaaa actgtctcty ccaaaaaaaaa 780
```

<210> 157

<211> 1127

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1113)

<223> n equals a,t,g, or c

<400> 157

```
aacttcagtgc ccctcactgt agaatttaaa agccttactg ttgattgccc atggtggact 60
tgatggagaa attaaatata ttccattatg ctttacaata tactgtatat gtttcagcaa 120
gtttggggaa tgggagagga caaaaaaaaa ttacatttaa tctatgcatt ttgccaagc 180
catattgagt tattttacta ctagagacat taggaaacta actgtacaaa agaaccaagt 240
ttaaaagcat tttgtggggt acatcatttc tataattgta taatgtattt ctttgtgggt 300
ttaaatgata aagacattaa gttaacaaac atataagaaa tgtatgcact gtttgaaatg 360
taaattattc ttagaacact ttcaatgggg gttgcattgt ccttttagtg ccttaatttg 420
agataattat ttactgcca tgagtaagta tagaaatttc aaaaaatgta tttcaaaaa 480
attatgtgtg tcagtgtgtt ttccattgat aattggttta atttaaaata tttagagggt 540
tgttggactt tcataaattg agtacaatct ttgcatcaaa ctacctgcta caataatgac 600
tttataaaac tgcaaaaaat gtagaagggt gcaccaacat aaaaaggaaa tatggcaata 660
catccatgat gttttccagt taacatagga attaccagat aaatactgtt aaactcctgt 720
ccagtaacaa gagttgattc atatggacag tatgatttat tgtttatttt ttttaacaaa 780
tacctcctca gtaatttata atggccttgc agtaatgtgt atcagataag aagcactgga 840
aaaccgatcg tctctaggat gatatgcatt tttcaagtgg tattgaaagc cgcactgatg 900
gatatgtaat aataaacata tctgttatta atatactaat gactctgtgc tcatttaatg 960
agaaataaaa gtaatttatg gatgggtatc ttttaatttt actgcaatgt gttttctcat 1020
ggctgaaatg aatggaaaac atacttyaat tagtctctga ttgtatataa atgtttgtga 1080
aattccatgg ttagatataa gtgtrttggg aanaattctc catggggg 1127
```

<210> 158

<211> 1282

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (120)

<223> n equals a,t,g, or c

<220>

<221> misc feature  
<222> (205)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (207)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (236)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (732)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1279)  
<223> n equals a,t,g, or c

<400> 158  
tgctctacaa atagtaaaaa taaaaaataa aaaaagtagc tgggcgtggt ggtgtgcacc 60  
tgtggtccca gctgcttggg atgctgaggt ggaaggatct cttaaaccce ggaggggtggn 120  
aggctgcagt gaacttgcca ttgcaccact ggcactccag tctgggggac agagtgcagac 180  
cccattctcaa aaaagtgttt aattnantat acttgtagt ggtctatttg catttnaaaa 240  
ctgctttcta gaattaggat agctccctta ggtttaatgt tttggtgagc aggaatatca 300  
gttacccttc cagatcttaa ttctagtttt tttatcactt tttcatgagg tgatctcatc 360  
ctcatctcct agcatgtctg gcaattttga tttctgaact ctgtgctacc tcagaggcca 420  
gcttccttag ggaaaaatca gtgctgaaat aaagttatat ttccctttct gctctaaata 480  
tatagtgggg gaataagaga aatgaagagg aattcctgag aacgtaatta ctgaaactc 540  
ccctctccca cgtaatgtct ctcacacacc atggacccct attcccccaa tttgcgaccc 600  
cccaccccac ccacaacag gtggtgatct ttgtgaagtc tgtgcagcgg tgcattgcct 660  
tggccagct actagtggag cagaacttcc cagccattgc catccaccgt gggatgcccc 720  
aggaggagag gntttaaaga ttttcaacga cgaattcttg tggctaccaa cctatttggc 780  
cgaggcatgg acatcgagcg ggtgaacatt gcttttaatt atgacatgcc tgaggattct 840  
gacacctacc tgcacgggt ggccagagca ggccggttg gcaccaaggg cttggctatc 900  
acatttgtgt ccgatgagaa tgatgccaag atcctcaatg atgtgcagga tcgctttgag 960  
gtcaatatta gtgagctgcc tgatgagata gacatctcct cctacattga acagacacgg 1020  
tagaagactc gccatttttg gaatgtgacc gtctgtcctt caggagagga caccaggggtg 1080  
ggggtgaagg agacactact gccccaccc ctgacagccc ccaccccatg gcttccatct 1140  
tttgcatcac caccactcct gaaccccat ttctgatttg tcagaatttt tttttaacaa 1200  
aactaaaaat gaaacacatg tgtctgtggt atctaaaaaa aaaaaaaaaa aaawwggggg 1260  
gsgcccgta cccattggn c 1282

<210> 159  
<211> 1505  
<212> DNA

<213> Homo sapiens

<400> 159

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ttacatgttg cagaagctaa ttgaagagac agataggttt gtagtggtca cagaagagga 60
atcaggcatg agtgaccagt tgtgtggcat tgctgcctgc cagacggatg acatatacaa 120
ccgaaactgc cttattgaat tggtaacct gtcagatggt tcttcgtgga gcagagacak 180
aaggctgtgt catttgttca gctgccaaag cccaactgct gcagtgccag caccatccag 240
cctggtatgg tgatacattg aagcaaaaga catcctggac ttgcctcttg gatggcatgc 300
agtactttgc caccactgaa agcagcccca cagagcagga tggccgacag ctctggttag 360
aggtgaagaa tatcgaggag caccggcagc gtagtctgga ctctgtgcag gagctgatgg 420
agagtgggca ggcagtgggc ggcattggtta ccacaaccac agattggaac cagccagctg 480
aggcacagca agcccagcaa gtccagcgga tcatttcgcg ttgcaactgc cgaatgtact 540
atattagtta cagccatgac attgatcctg aactagcaac tcagattaag ccacctgaag 600
ttcttgagaa ccaggaaaag gaagatctcc taaagaagca ggaaggggct gtggatacct 660
tcacccttat ccaccatgag ctggaaattt ccaccaaccc agctcagtat gccatgatcc 720
tggaacttgt caacaacctg ctgctccatg tagaacctaa gcggaaggaa catagtgaga 780
agaagcaacg ggtcaggttc cagcttgaga tctctagcaa tccagaggag caacgcagca 840
gcatactgca ttgacaggag gctgtgcggc agcatgtggc ccaaatacga cagctggaga 900
agcagatgta ttctatcatg aagtctttgc aggatgacag caagaatgag aatctgcttg 960
acctgaacca gaagcttcag ttgcagctaa accaggagaa ggccaacctg cagctggaaa 1020
gtgaagaact gaatatcctc atcagggtgtt ttaaggattt ccaactgcag cgggctaaca 1080
agatggagct gcgaaagcac aagaagatgt gtagtggttc cgtcgcaact agttttactt 1140
tgctcaggca cgggtggcgc tgacagagga agatggacag ctgggaattg ctgaattaga 1200
actgcagagg ttctcttaca gcaagggtgaa taagtctgat gacacagcag aacatcttct 1260
ggagttgggc tggtttacca tgaacaacct cctccccaat gctgtctata aggtagtact 1320
gcggccccag agctcctgcc agtctgggcg acagctagct ctccgcctct tcagcaaagt 1380
tcggccccct gttgggggta tctctgttaa ggagcathtt gaggtaaatg tggtgctctc 1440
accatccagc tgacacacca ttcttcaca gatgatgggc ttttctttcc tggccgaagt 1500
gtgga 1505
```

<210> 160

<211> 736

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (718)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (723)

<223> n equals a,t,g, or c

<400> 160

```
aggcacgagg gacacttggg gtctggacgc aacggcggcg ggagcatgaa cgcccccca 60
gccttcgagt cgttcttgct cttcgagggc gagaagatca ccattaacaa ggacaccaag 120
gtacccaatg cctgtttatt caccatcaac aaagaagacc acacactggg aaacatcatt 180
aaatcacgtg cctgcttccc ctctgccttc tgccgtgatt gtcagtttcc tgaggcctcc 240
ccagccacgc ttctgtaca gcctgcagaa ctgtgagtca attaaacctc ttttcttcat 300
```

```
aaattaccca gtttctcata gttctttata gcagtgtgaa aacagactaa tggacccttc 360
tggttgaagg aatgcagcca ttctgcttgt ttgactatgt ctttcttatt catctctatt 420
tcctgggagg tgtttatcca agtgcaatag gaggtattgg tgaccgcaca gtcccctcag 480
tgttctgcta gtaaatagtt gaaggttgat cattgatctt ctgcgttttc agtctggcat 540
ggaaaagccc ctgtgcaact ggtaaagata tcaataagca cctggtgggt ggcgggggta 600
gtccaggctt gtcttgcaac tgtatgttct cttcagacc ctcctggcg atgccagatt 660
cactgggctg gcagattctg cccccccaa aaaaaaaaa aaaatattaa taataaanaa 720
aanagactcc cagga 736
```

<210> 161

<211> 995

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (59)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (889)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (899)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (928)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (933)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (938)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (974)

<223> n equals a,t,g, or c

<400> 161

```
gggtcgaccc acgcgtccgg gcggcctcgg cagcgggtgtt ctcgcgcttg cgaasgggnc 60
```

```
tccggctcgg ctgcggggga ctgtgcacga ggttggcgac gcgccccgcc gggccccaga 120
tcaggccgca gagatcggga gccgcgggag cactaaggcg caagggccac agcagcagcc 180
gggctcagag ggtcccagct atgccaaaaa agttgcgctc tggcttgctg ggctgcttgg 240
agctggtggg actgtgagcg tcgtctatat ctttggaac aaccgggtgg acgaaaatgg 300
tgccaagatt cctgatgagt tcgacaatga tccaattctg gtacagcagt tgcgccggac 360
atacaaatat ttcaaagatt atagacagat gatcatcgag cccaccagcc cttgccttct 420
cccagaccct ctgcaggaac cgtactacca gccaccctac acgctcgttt tggagctcac 480
cggcgtcctc ttgcatcctg agtggtcgct ggccactggc tggaggttta agaagcgccc 540
aggcatcgag accttggtcc agcagcttgc ccctttatat gaaattgtca tctttacgct 600
agagactggc atgactgcgt ttccactcat tgatagtgtg gacccccatg gcttcatctc 660
ctaccgccta ttccgggacg ccacaagata catggatgga caccatgtaa aggatatttc 720
atgtctgaat cgggacccag ctcgagtagt agttgtggac tgcaagaagg aagccttccg 780
cctgcagccc tataacggcg ttgccctgcg gccctgggac ggcaactctg atgaccgggt 840
cttggttgat ctgtctgcct tcctcaagac cattgcactg aatggtgtng gaggacgtng 900
cgaaccgtgc tgggagcatt atgccctngg ganggatnga ccccgctggg cggcttttgc 960
aaacagcggc aaancgggct tagaagcagg gagga 995
```

<210> 162

<211> 1125

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (972)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1023)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1077)

<223> n equals a,t,g, or c

<400> 162

```
gccctagtac ggtccggaat tcccgggtcg acccacgcgt ccgcccacgc gtccgcgctg 60
gtgttgccgc gctggcgaca gtcgggggtg cgagcggccc ggggccgggg cggccagggc 120
cgctgcagga cgagaccctg ggtgtggcgt ccgtgccctc gcagtggagg gccgtccagg 180
gcatccgcgg ggagacgaaa agttgccaga cggccagcat tgccactgcc agtgcacccg 240
cccaggccag gaatcatgtg gacgcccagg tgcagacgga ggccccctg cctgtcagcg 300
tgcagcccc gtccagtay gacataacca ggctcgcagc ctttcttcgg agagtggagg 360
ccatggtcat ccgagagctg aacaagaatt ggcagagcca cgcgtttgat ggcttcgagg 420
tgaactggac cgagcagcag cagatggtgt cttgtctgta taccctgggc taccgccag 480
cccaagcgca gggctctgcat gtgaccagca tctcctggaa ctccactggc tctgtggtgg 540
cctgtgccta cggccggctg gaccatgggg actggagcac gcttaagtcc ttcgtgtgtg 600
cctggaacct ggaccggcga gacctgcgtc cccagcaacc gtcggccgtg gtggagggtc 660
ccagcgtgt cctgtgtctg gccttcacc ccacgcagcc ctcccagtc gcaggagggc 720
tgtacagtgg tgagggtgtg gtgtgggacc tgagccgtct tgaggacctg ctgctgtggc 780
```

```

gcacaggcct gacggatgac acccacacag accctgtgtc ccagggtggtg tggctgccc 840
agcctgggca cagccamcgg ttycagggtgc tkagtgtggc cacygacggg aaggtgctac 900
tctggcargg catcggggta rgccagctgc agttcacaga rggcttcgcc tggttcatkc 960
agcagctgcc anggagcacc aagctcaaga agcatccccg cgggagaccg aggtgggccc 1020
canggcaggc tttcttccag tttgacctca ggttttcatt ttggcaggaa gcggttnccg 1080
ttcaattttc ctggcattgg agagcagcct taaggggtgc ccatt 1125

```

<210> 163

<211> 423

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (390)

<223> n equals a,t,g, or c

<400> 163

```

gggtcgaccc acgcgtccga gatggcggtt cgcagcaaga ggccggagca cggcggggccc 60
ccggagctgt tttatgacaa gaatgaagcc cggaaatacg tgcgcaactc acgcatgatt 120
gatgtccaga ccaaaatggc tggcgagct ttggagctcc tttgtctgcc ggaggtcagc 180
cctgttacct cttgatatt ggctgtggtt ctgggctgag tggagattat ctctcggtat 240
aagggcacta ctgggtaggc atcgacatca gccctgccat gctggatgag gccttgacc 300
gagacactga gggagacctg cttctggggg acatgggcca gggcatcccc ttcaaaccag 360
kttcattgat ggatgtatca gcattctgcn aatcagtggc tctgtaatgc aaaccaagaa 420
gtc 423

```

<210> 164

<211> 1642

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1614)

<223> n equals a,t,g, or c

<400> 164

```

acccacgcgt ccggcggtcg gcggagcaga acggattgca gggtcagcca tgtcatctga 60
gcctccccc caccacagc cccccacca tcaagcttca gtcgggctgc tggacacccc 120
tcggagccgt gagcgctcac catccctctc gcgsggcaac gtggtcccaa gccactgcc 180
cactcgccgg acgaggacct tctcggcgac ggtgcgggct tcacagggcc ccgtctacaa 240
aggagtctgc aaatgcttct gccggtccaa gggccatggc ttcattaccc cagctgatgg 300
cggcccccgc atcttcctgc acatctctga tgtggaaggg gagtatgtcc cagtgggaag 360
cgacgaggtc acctataaaa tgtgtcccat cccacccaag aatgagaagc tgcaggccgt 420
ggaggctcgc atcactcacc tggcaccagg caccaagcat gagacctggt ctggacatgt 480
catcagctcc taggagatgg tggaagcacc ccttgtcctg tgcttgtggg agactttgag 540
gggaggaggc agcagacact ggagatgaca ttcttcaca cgagacgggg ctccagccgg 600
gcatggtccc tctcaagtat ctcttgagg aaggggtatg gggggcagg gtgggggtgtg 660
gggtgttccc ggccatcagc acagcctatg accattgcaa caacctctca ccatctgaag 720
agcattaaaa gcatttaaaa aggaragggtg cccactgggtg gctgagtggg ggttccaacc 780

```

```

ccatcccagg gagtggatca aggggtggtat ttctccagct gctcagacac atgggctcaa 840
cccacagaat ccctcttcct cctggagctg gagggcccag attcccagat ctggccccct 900
ggcagcctga cagggacett gcgtgacttc tccaaggcaa atttccacct aagtggccct 960
tgcgcctctc ctggggcctg ggcaaagcag ttttctaatt cttggcttggt ttggttctag 1020
gggagctggc ttgaagtggg kggggaaagg cgggggtggc ggtcttttga ttggacggat 1080
gttgcccttt ggtgcctttg cagtgggagg cggcatagct gcctgtctgg ggaagacagt 1140
tctcccagca ctcccacccc tgggcacagc aggttggtac tgggaggctg aaccctctt 1200
agagcctgac cttttcatct gccttctggt tgtgtgacca tcaactcaaca gccatttcac 1260
agcccctgta attatggcgg cggggggctg ggggtggtgt ggtgggaagg gcttgtggag 1320
aggacacagt ctttgtttta aaactttgtc ccgatccatc cagaaaagag taggtagctt 1380
gcacccctgac agcctggcaa agtcaagaaa gttgaaggag aaacatacct ttggagaggg 1440
ggttttcttt aaaactagt ttaagaaatg cttagggatt ttttttttct tatttttcat 1500
aactaaagct ttcaccacaga gccggctctg tttgcacttt gctgccgaca ttgcaaactt 1560
tttggcaggg tgggagactg agtctcattc tgtcamccag gctggagtgc agtngccccg 1620
tctcagcttt actgcaacct ct 1642

```

<210> 165

<211> 1115

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (390)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (394)

<223> n equals a,t,g, or c

<400> 165

```

aggaatgccg agtactgcag gggctcccca gggagtatgt gaatgccagg cactgtttgc 60
cgtgccacce tgagtgtcag cccacagaatg gctcagtgac ctgttttggg ccggaggctg 120
accagtgtgt ggctgtgtcc catcaagtgg atggcgctgg agtccattct ccgccggcgg 180
ttcaccacc agagtgtatg gtggagttaa ggtgtgactg tktgggagct gatgactttt 240
ggggccaaac cttacgatgg gatcccagcc cgggaggatc cctgacctgc tggaaaaggg 300
ggagcggctg cccagcccc ccatctgcac cattgatgtc tacatgatca tggtaaaatg 360
ttggatgatt gactctgaat gtcggccaan attncgggag ttggtgktg aattctcccg 420
catggccagg gacccccagc gctttgtggt catccagaat gaggacttgg gccagccag 480
tcccttggac agcaccttct accgctcact gctggaggac gatgacatgg gggacctggt 540
ggatgctgag gagtatctgg taccacagca gggcttcttc tgtccagacc ctgccccggg 600
cgctgggggc atggtccacc acaggcaccg cagctcatct accaggagtg gcggtgggga 660
cctgacacta gggctggagc cykctgaaag aggaggcccc caggtctcca ctggcacctt 720
ccgaagggct ggctccgatg tattttratg tgacctggga atgggggcag ccaaggggct 780
gcaaagcctc cccacacatg accccagccc tctacagcgg tacagtgagg accccacagt 840
acccctgccc tctragactg atggctacgt tgccccctg acctgcagcc cccagcctga 900
atatgtgaac cagccagatg ttcgggccca gcccccttcg ccccgagagg gccctctgcc 960
tgctgcccga cctgctggtg ccactctgga aaggscaaag actctctccc cagggaagaa 1020
tggggtcgtc aaagagtttt tgcccttggg ggtgcctgtg agaaccctga gtattgacac 1080
cccaggggag ggagcttgcc cttcagcccc acctt 1115

```



<210> 166  
<211> 1066  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (10)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (739)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (968)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1023)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1025)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1042)  
<223> n equals a,t,g, or c

<400> 166  
gggcacgagn cacctgagcc ccttgctctg caccggctcc caggagggca cctccatgga 60  
gggctcccgc cccgctgccc ctgccagagc caggcaccct caagaccagt ctggtggcta 120  
ctccaggcat tgacaagctg accgagaagt cccagggtgtc agaggatggc accttgcggt 180  
ccctggaacc tgagccccag cagagcttgg aggatggcag cccggctaag ggggagccca 240  
gccaggcatg gagggagcag cggcgaccgt ccacctcatc agccagtggg cagtggagcc 300  
caacgccaga gtgggtcctc tcctggaagt cgaagctgcc gctgcagacc atcatgaggc 360  
tgctgcagggt gctgggttcc cagtggagaa gatctgcacg gacaagggcc tgacggatga 420  
gtctgagatc ctgcggttcc tgcagcatgg caccctggtg gggctgctgc ccgtgcccc 480  
ccccatcctc atccgcaagt accaggccaa ctcgggcact gccatgtggt tccgcaccta 540  
catgtggggc gtcattatc tgaggaatgt ggacccccct gtctggtacg acaccgacgt 600  
gaagctgttt gagatacagc ggggtgtgag atgaagccga cgaggggctc agtctagggg 660  
aaggcagggc cttgggtccct gaggcttccc ccatccacca ttctgagctt taaattacca 720  
cgatcagggc ctggaacang cagagtggcc ctgagtgtca tgccctagag acccctgtgg 780  
ccaggacaat gtgaactggc tcagatcccc ctcaaccctc aggctggact cacaggagcc 840

126

```

ccatctcttg ggctatgccc caccagagac cactgcccc aacactcgga ctccctcttt 900
aagacctggg ytcagtgtg gccctcagt gccaccact cctgtgtac ccagcccca 960
gaggcagnaa rccaatgggt cactgttgcc cctaaagggg ggtttttgaa ccaaggggga 1020
aancnacggg gcctggttcc cntttggaaa ggtttccct gggaaa 1066

```

&lt;210&gt; 167

&lt;211&gt; 657

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (278)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (564)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (597)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (602)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (635)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 167

```

gtcgcgagcg ctgccgtcgg gaggcgctcc gaggttcgag gctgtgcccc gcgaccccg 60
cttcggcgct cggctcgag gatggatccc gtaccggga cagactcggc gccgctggct 120
ggcctggcct ggctgtcggc ctctgcaccc ccgcccggg gkttcagcgc gatctcctgc 180
accgtcgagg gggcaccgcc agctttggca agagcttcgc gcagaaatct ggctacttcc 240
tgtgccttag ttctctgggc agcctagaga acccganga gaacgtggtg gccgatatacc 300
agatcgtggt ggacaagagc cccctgccgc tgggcttctc ccccgctcgc gamcccatgg 360
attccaaggc ctctgtgtcc aagaagaaac gcatgtgtgt gaarctgttg cccctkggar 420
ccamggacac ggctgtgttt gatgtccggc tgagtgggaa gaccaagaca gtgcctggat 480
accttcgaat aggggacatg ggcggctttg ccatctggtg caagaaaggc caaggccccc 540
aggccagttg cccaaagccc cgangtcctc agcccgggac atgcaagggc ttctctntgg 600
angcagccag ccagcccaag ttaagggcgg gcctncttgg aagccggaca agcgttc 657

```

&lt;210&gt; 168

&lt;211&gt; 1026

&lt;212&gt; DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1011)

<223> n equals a,t,g, or c

<400> 168

```
ggcacgagga gagatggagg ggcggcaggt gctggaggtc aagatgcagg tggagtacat 60
gtcattcagc gcacacgcgg acgccaaggg catcatgcag ctggtgggcc aggcagagcc 120
gkagagcgtg ctgctggtgc atggcgaggc caagaagatg gagttcctga agcagaagat 180
cgagcaggag ctccgggtca actgctacat gccggccaat ggcgagacgg tgacgctgcc 240
cacaagcccc agcatccccg taggcattctc gctggggctg ctgaagcggg agatggcgca 300
ggggctgctc cctgaggcca agaagcctcg gtcctgcac ggcaccctga tcatgaagga 360
cagcaacttc cggctggtgt cctcagagca agccctcaaa gagctgggtc tggctgagca 420
ccagctgcgc ttcacctgcc gcgtgcacct gcatgacaca cgcaaggagc aggagacggc 480
attgcgcgtc tacagccacc tcaagagcgt cctgaaggac cactgtgtgc agcacctccc 540
rgacggctct gtgactgtgg agtccgtcct cctccaggcc gccgcccctt ctgaggaccc 600
aggcaccaag gtgctgctgg tctcctggac ctaccaggac gaggagctgg ggagcttctt 660
cacatctctg ctgaagaagg gcctccccca ggcgccagc tgaggccggc aactcaccca 720
gccgccacct ctgccctctc ccagctggac agaccctggg cctgcacttc aggactgtgg 780
gtgccctggg tgaacagacc ctgcagggtc catccctggg gacagaggcc ttgtgtcacc 840
tgcttgccca ggcagctgtt tgcagctgaa gaaacaaact ggtctccagg ctgtcttgcc 900
tttattcctg gttagggcag gtggtcctag acagcagttt ccagtaaaag ctgaacaaaa 960
aaaaaaaaaa aaaaaattgg gggggggccc gttaccatt tggcctttag nggggggttt 1020
aaatta                                           1026
```

<210> 169

<211> 774

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (730)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (733)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (754)

<223> n equals a,t,g, or c

<400> 169

```
ggcataaaca tcgggtggtg ttcagatcct gctgccggca gctcgaggct aggatggctg 60
gagatgtgag ggcttttgtc tcatcacatc cgagcacagc tcagcaagat gctcttagct 120
agraaacaga ttttatgtgt taatgttaaa aattttgcag ttatttatct tgtggatatt 180
```

```

acagaagtgc ctgacttcaa caaaatgtat gagttatacg atccatgtac tgtcatgttt 240
ttcttcagga acaagcacat catgattgac ttggggactg gcaacaacaa caagattaac 300
tggggccatgg aggacaagca ggagatggtg gacatcatcg agacggtgta ccgcggggcc 360
cgcaaaargcc gcggcctggt ggtgtccccc aaggactact ccaccaagta ccgctactga 420
ggcgccctca gtctgcgcgg ataaatgtcg tggagccctt tttgtatgga aacgttttaa 480
gctattttaa gcctttggaa aatacaggaa gctccagggc tggagcacct ctgagatgga 540
attgataaca tgggtcttaac tcaccgaaat aaacaagcac gtggtgagag gagcaggcct 600
acttgtttgt tctcaggaaa cttaatgaat agattactga ttttcctagt caaagttaat 660
tcttaccctt ggagtaaaac gaaggtgttt atcctgtgag cctgtgcgtt ttgcatactg 720
ggttggtttn ctngggcctt ggtgacagca tatnccgcga gctgggcttt aaca 774

```

<210> 170

<211> 402

<212> DNA

<213> Homo sapiens

<400> 170

```

ggcacgagcg gcggtggggc ggacagcccg ggtgcgcact tgggcccccc tggccatggc 60
ggcgaagggtg gacctgagca cctccaccga ctggaaggag gcgaaatcct ttctgaaggg 120
cctgagtgac aagcagcggg aggaacatta cttctgcaag gactttgtca ggctgaagaa 180
gatcccgaca tgggaaggaga tggcgaaagg ggtggctgtg aagggtgagg agcccaggta 240
taaaaaggca aagcagctca atgagaaaat ctccctgctc cgcagcgaca tcaccaagct 300
ggaggtggac gccatcgta acgcccga cagctccccg cccccgagga gcctaattaa 360
agatcttcgt tgtggcaaaa aaaaaaaaaa aaaaaaaaaa aa 402

```

<210> 171

<211> 796

<212> DNA

<213> Homo sapiens

<400> 171

```

aggcatcggg gacagccgct gcggcagact cgagccagct caagcccga gctcgcaggg 60
agatccagct ccgtcctgcc tgcagcagcc caaccctgca caccacccat ggatgtyttc 120
aagaagggtc tctccatcgc caaggagggc gtggtgggtg cgggtgaaaa gaccaagcag 180
ggggtgacgg aagcagctga gaagaccaag gagggggtca tgtatgtggg agccaagacc 240
aaggagaatg ttgtacagag cgtgacctca gtggccgaga agaccaagga gcaggccaac 300
gccgtgagcg aggctgtggt gagcagcgtc aacactgtgg ccaccaagac cgtggaggag 360
gcggagaaca tcgcggtcac ctccggggtg gtgcgcaagg aggacttgag gccatctgcc 420
ccccaacagg aggggtgaggc atccaaagag aaagagggaag tggcagagga ggcccagagt 480
gggggagact agagggttac aggccagcgt ggatgacctg aagagcgctc ctctgccttg 540
gacaccatcc cctcctagca caaggagtgc ccgccttgag tgacatgcgg ctgcccacgc 600
tcttgccttc gtctccctgg ccaccttggt cctgtccacc tgtgtgctgt caccaacctc 660
actgccttcc ctcggtccca cccacctctt ggtccttctg accccactta tgtgtgctgt 720
aatttttttt ttaaatgatt ccaaataaaa cttgagccca ctyctaaaaa aaaaaaaaaa 780
aaaaaaaaag gggccc 796

```

<210> 172

<211> 478

<212> DNA

<213> Homo sapiens

&lt;400&gt; 172

```

aattcggcag agcctggttg cagggcagct aggggtctct gcattctcca catggtctca 60
tgcccccttt tgtcccctac aggaggactt gaggccatct gccccccaac aggaggggtga 120
ggcatccaaa gagaaagagg aagtggcaga ggaggccag agtgggggag actagagggc 180
tacaggccag cgtggatgac ctgaagagcg ctccctctgcc ttggacacca tcccctccta 240
gcacaaggag tgcccgcctt gagtgacatg cggctgcccc cgctcctgcc ctcgtctccc 300
tgggccacct tggcctgtcc acctgtgctg ctgcaccaac ctcaactgcc tccctcggcc 360
ccaccacccc tctggtcctt ctgacccac ttatgctgct gtgaattttt tttttaaatg 420
attccaaata aaacttgagc ccactcctaa aaaaaaaaaa aaaaaaaaaa aaaaaaaa 478

```

&lt;210&gt; 173

&lt;211&gt; 656

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (59)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 173

```

tttcccaatg cctgccacca cggagactca gggccacctg ccaccctccc tcgctgcctt 60
ctgcccttgg gatggggcgc tcctgaatgt acgtgggccc cgggtgtttac aaggaggtga 120
tcacttacaa cctctgccag aagcaggtgg ttgagaagat accactgccc ttttttgcca 180
tgtccctgag cctgtccccc gggaccaccc tcctggctgt tggttttgct gagtgcattc 240
tgaggctggg agactgtgcc atggggactg cccaagactt tgccggccac gacaacgcag 300
tgcaacctgt cagggtttaca ccttccgcca ggctgctctt cacggccgcc cgcaacgaga 360
tccttgtgtg ggaggtcccc ggcctctgag atgcagcagg gactgtggtg gtgggcatca 420
acgcctggtc atgccaggca cctggacaca ggcttgagcagg aggcgccagg ttgtcaatgg 480
cctcatgctg ggacaggcca ggattcacgt aaatcgccct gagcaagctg ttgtaaatgt 540
ggcgccctgt gaatacttct atacctgttg cccttttgcc taagaaatct ttaatgtttc 600
tatcttgtaa taaacatggg cattttattgc aaaaaaaaaa aaaaaaaaaa aaaaaa 656

```

&lt;210&gt; 174

&lt;211&gt; 1891

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 174

```

gagccccctc cgagagggga gaccagcggg ccatgacaag ctccaggctt tggttttcgc 60
tgctgctggc ggcagcgttc gcaggacggg cgacggccct ctggccctgg cctcagaact 120
tccaaacctc cgaccagcgc tacgtccttt accgaacaa ctttcaattc cagtacgatg 180
tcagctcggc cgcgcasccg gctgctcagt cctcgacgag gccttccagc gctatcgtga 240
cctgcttttc ggttccgggt cttggccccg tccttacctc acagggaac ggcatacct 300
ggagaagaat gtgttggttg tctctgtagt cacacctgga tgtaaccagc ttcctacttt 360
ggagtcatg gagaattata ccctgacct aaatgatgac cagtgtttac tcctctctga 420
gactgtctgg ggagctctcc gaggtctgga gacttttagc cagcttgttt ggaaatctgc 480
tgagggcaca ttctttatca acaagactga gattgaggac tttccccgct ttcctcaccg 540
gggcttgctg ttggatacat ctcgccatta cctgccactc tctagcatcc tggacactct 600
ggatgtcatg gcgtacaata aattgaacgt gttccactgg catctggtag atgatccttc 660
cttcccatat gagagcttca cttttccaga gctcatgaga aagggttcct acaaccctgt 720

```

```

caccacacac tacacagcac aggatgtgaa ggaggtcatt gaatacgcac ggctccgggg 780
tatccgtgtg cttgcagagt ttgacactcc tggccacact ttgtcctggg gaccagktat 840
ccctgggatt actgactcct tgctactctg ggtctgagcc ctctggcacc ttgggaccag 900
tgaatcccag tctcaataat acctatgagt tcatgagcac attcttctta gaagtcagct 960
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agctggagtc cttctacatc cagacgctgc tggacatcgt ctcttcttat ggcaagggct 1140
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aggtgtggcg agaggatatt ccagtgaact atatgaagga gctggaactg gtcaccaagg 1260
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catctgacct gacatttgcc tatgaacggt tgtcacactt ccgctgtgag ttgctgaggc 1560
gagggtgtcca ggccccaccc ctcaatgtag gcttctgtga gcaggagttt gaacagacct 1620
gagccccagg caccgaggag ggtgctggct gtaggtgaat ggtagtggag ccaggcttcc 1680
actgcatcct ggccagggga cggagcccct tgccttcgtg ccccttgccct gcgtgcccct 1740
gtgcttgag agaaaggggc cgggtgctggc gctcgcatte aataaagagt aatgtggcat 1800
ttttctataa taaacatgga ttacctgtgt ttaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1860
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa g 1891

```

&lt;210&gt; 175

&lt;211&gt; 2161

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2153)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2160)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 175

```

cgcttccgtc cacttggcga gtgagacgct gatgggagga tggacrtact ggtgtctgag 60
tgctccgcgc ggctgctgca gcaggaagaa gagattaaat ctctgactgc tgaaattgac 120
cggttgaaaa actgtggctg tttaggagct tctccaaatt tggagcagtt acaagaagaa 180
aatttaaaat taaagtatcg actgaatatt cttcgaaaga gtcttcaggc agaaaggaac 240
aaaccaacta aaaatatgat taacattatt agccgcctac aagaggctct tggatcatgca 300
attaaggctg catatccaga tttgaaaaat cctcctctgc tagtgacacc aagtcagcag 360
gccaaagtgt gggactatca rtgtaatagt gctatgggta tttctcagat gctcaaaacc 420
aaggaacaga aagttaatcc aagagaaatt gctgaaaaca ttaccaaaaca cctcccagac 480
aatgaatgta ttgaaaaagt tgaaattgct ggtcctgggt ttattaatgt ccacttaaga 540
aaggattttg tatcagaaca attgaccagt cttctagtga atggagttca actacctgct 600
ctgggagaga ataaaaagggt tatagttgac ttttcctccc ctaatatagc taaagagatg 660
catgtaggcc acctgaggtc aactatcata ggagagagta taagccgcct ctttgaattt 720
gcagggtatg acgtgctcag gttaaatcat gtaggagact gggggacmca gtttggcatg 780
ctcatcgctc acctgcaaga caaatttcca gattatctaa cagtttcacc tcctattggg 840

```

```

gatcttcagg tcttttataa ggaatctaag aagagggttg atactgagga ggaatttaag 900
aagcgagcat atcagtgtgt agttctgctc cagggtaaaa acccagatat tacaaaagct 960
tggaagctta tctgtgatgt ctcccgccaa gagttaaata aaatctatga tgcattggac 1020
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gaatttgaag atagaggatt tgtgcagggt gatgatggca gaaagattgt atttgtccca 1140
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gacctggctg ctattaaaca aagactatct gagggaaaaag cagatatgat tatctatggt 1260
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gacaagaaaa agttttaaac acgttcgggt gaaacagtgc gcctcatgga tcttctggga 1440
gaaggactaa aacgatccat ggacaagttg aaggaaaaag aaagagacaa ggtcttaact 1500
gcagaggaat tgaatgctgc tcagacatcc gttgcrtatg gctgcatcaa atatgctgac 1560
ctttcccata accggttgaa tgactacatc ttctcctttg acaaaatgct agatgacaga 1620
ggaaatacac ctgcttactt gttgtatgcc ttcactagaa tcagggtctat tgcacgtctg 1680
gccaatattg atgaagaaat gctccaaaaa gctgctcgag aaaccaagat tcttttggat 1740
catgagaagg aatggaaact aggccgggtg attttacggg tccctgagat tctgcaaaaag 1800
attttagatg acttatttct ccacactctc tgtgattata tatatgagct ggcaactgct 1860
ttcacagagt tctatgatag ctgctactgt gtggagaaaag atagacagac tggaaaaata 1920
ttgaagggtg acatgtggcg tatgctgcta tgtgaagcag tagctgctgt catggccaag 1980
gggtttgata tcctgggaat aaaacctgtc caaaggatgt aatccttcat aggtttgaac 2040
actgtgtggt ttaccaaaag tgccattggc actgtttgct tttttacaat catgtggaca 2100
caagcataag taaagaaaat ttgtcaacca gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2160
a

```

&lt;210&gt; 176

&lt;211&gt; 2411

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 176

```

gggacccctg ctaccactct gaatccgata ccgcttctct tagaccgtca ctgagacaac 60
ggttaccgtg acaaccgagc ccgagaaccg gagccttacc atcaaacttc ggaaacggaa 120
gccagagaaa aaggtagaat ggacaagtga cactgtggac aatgaacaca tgggccgccg 180
ctcatcmaaa tgctgtgta ttatgagaa acctcgggac tttggcgaga gctccacgga 240
aagtgatgag gaggaagaag agggctgtgg tcatacacac tgtgtacgtg gccaccgcaa 300
aggagggcgt cgtgcaaccc taggaccgac cccaccacc cctccccagc ctctgtaccc 360
ttcccagccc cctccagggc caatgcagca ctaaatccct ctctcctcca gcattcctgt 420
gtctgtctgg ccctaaatgt atccatgtgg ctacttctcc agccccctcc ttccctctct 480
tctgcctgat agaggggaaga ggaagaggag gacgaacaga gatcctgaaa ttctgacttg 540
ctgctatttc agaaccagc ctctggggtt tccccagtcc tcatttttcc tcccaatacc 600
cacccttctc tctcgaggga tctaggcacc ttggtcccag tgtcttctct ttgttctcac 660
tgccaaactg cctgtcctgg gatctagtta tcttggccct gcactctcaa catgagtagc 720
gaacacttaa attgggtttt caacagtccc agctttcact gccagggctc cagtcagatt 780
ccaggaattt gcgccctaac ttgtcttgct aatcctgggt tagagctatc ccactaaaat 840
atttaatcct aattcttagt ccttgcctgt gagatatgag gtcttacagg agacctcaga 900
gtccccagcc cttctcctcc tgctaaccct tctcacacc tcaagaggag ttagaaaaga 960
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agccgactgt ctctctgccc ttttgttttt cagcttcaga gacagatcca atatagtccc 1140
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cccctgtagt acactcttac ctcttacttc ctagactttg atttctccgg cagcccagat 1260

```

```
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ttttgccata cacagttaca gagatcagtc aaatccatac caccactgag atctcattta 1380
ttgccacaga tgcacaaaat aaataaccca aaatcacaaa atgtgttaaa tatgggcccc 1440
tttatactta tggggaaggg tktkagactw twcacaaagg tgartttgga ratktctgaa 1500
gtattcccag gttkaggarg agagagggga aatagcacca ttggttcctt tccgtgagta 1560
tgtgcgggga gaagtttcaa gaaggttctt atggaaaaaa ggctgtgagc atagaaagca 1620
gtcataggag gttggggaac tagcttgctc ctccccaccc ccagatcctg caaaagaggt 1680
acaaagcttc ccagaggcca cagggccaga ccagagtcaa gcctcttgtt ttaggagaaa 1740
cctcagtgga caggcagggt agcccagtc ttagatctgt kgggaaggcc ctgagccctt 1800
ctggagctag gagtggcaag agtgggagtc aagtatttga ccagcagagc ctctatgtag 1860
gaatcatggt cactttacca atactgatgg ggagggcctg ttccccattg caggcctaga 1920
atggtttgaa tgggagaagt caggaagtac tgtagtagct gtaggggaga gaagattctg 1980
agagccagaa ggcmwsgaat ggatttggtt ttgagcaggg acgtggaaac gtggagacca 2040
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cgtgtgaatg tgttcccaga aatgagtggt gaattccacc cccaaaaagc agctgcaggg 2160
ccagtgcggt gccaaacttc tagttggaga cgagactcag ctttccgctg gtacaatgct 2220
gacggagcac gagggtcgca ggtgcagaac agcgggaaga tgcgctcccc agggggccag 2280
ggcctggaag gtaaagcagg tcgagtgagc ggccgtcgta gagagccacc ggccccgctc 2340
ccagtccagg tccamgcgaa atgccgcggc gggggctcaa caccgcccag cagggtgggt 2400
tcgggtgccg t 2411
```

<210> 177

<211> 1338

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1234)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1276)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1289)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1326)

<223> n equals a,t,g, or c

<400> 177

```
ggcacgagaa aaaactcaga aatgctaagt gtacttattt gttgaagaaa cttgttacat 60
attactaaca tctttttttt ttatgagaaa tacttttccc ataacaaaa aattcagtga 120
gcagaatggc cttgcttgag gtttttgcaa atctctcggt tgcctggctt agtgggaggc 180
agctggggcc tcatacctgc ctccgcactt cagctgtttg acataaaccc agcttcgtgt 240
```



```

gagtgaagag gaagggcctg gggaccctca gaggttctcg gaccacactt tgagaactcc 300
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ctttgtggag aaccgctggt gtctgaagcg ggtgtcagcc cactgcacc ttggtcttct 420
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cagcagaaaa atggctacaa acttctagc acatgagaag atctggttcg acaagttcaa 540
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cggtagctc gtcgtccgga ttgccagtct ggaagtggag aaccagagtc tgcgtggcgt 780
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tacggttatc cggaagctaa caatttcatt tgnngttgga ggacgacaag tgggggacaa 1260
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caacanattt gaagcccg                                     1338

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<210> 178

<211> 1614

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1213)

<223> n equals a,t,g, or c

<400> 178

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tgcattgtgtg acatcccttc ttctcatcc tcttcatgta cttcarcggc tgccttactg 60
cctctaaagc tgagagcttg attccagggc ctgcctgct cctgggtggca cccagtggcc 120
tgtactactg gtacctggtc accgagggcc agatcttcat cctcttcatc ttcaccttct 180
tcgccatgct ggcctcgtc ctgcaccaga agcgcaagcc ctcttctctg acagcaacgg 240
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gcgctctgct ggggtggagg gtgggcatg gagggcatct gaatacagga gtaggggggg 480
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaa 1614

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<210> 179

<211> 4292

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (654)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (4288)

<223> n equals a,t,g, or c

<400> 179

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caaacagacc aatctgagca agtgccttgg ttttgtagc tacgacaatc cagtctctgc 180
acaagctgct atccaagcta tgaatggctt tcagatcggc atgaaacgct tgaagggtgca 240
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acctcacatc atatttggtt ctccactga cctttgatct agtttgacct ttgaaatttg 480
catgtgacct catctagcta tgaattctgg gaagtcaatg tgaaaaacat tgctgcattc 540
atgcaagact gaaatttatt attagacaaa ttcattatag aaaaaacctg tggcaaaaac 600
gtttctttct tatttttttt cttttcctaa aacagacttg aaagtattat acangggatt 660
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aacagtcaaa cttatttttg taatgtatgt tattgtgtga tgcagttttt tgcttctgtc 4200
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aaaaaaaaaa aaaaaaaaaa aaaaaanaa aa 4292

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&lt;210&gt; 180

&lt;211&gt; 243

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<220>

<221> misc feature

<222> (235)

<223> n equals a,t,g, or c

<400> 180

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ccagagggaa gtgtggtgtg tgggcacaac gggaaacgct aaccaggcac agagctcaac 180
ggagcagaca ctgtgaagc ccaagtgaaga aaccacggcg ctttggcgtg taacntggaa 240
tat 243
```

<210> 181

<211> 813

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (266)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (723)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (726)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (738)

<223> n equals a,t,g, or c

<400> 181

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aggatgacaa gttcctctcc ttccacatgg agatgggtgg gcatgtggat gcagmccagg 180
ccttcctgct gctctcggac ctgmgtcaga ggccagagtg ggacaagcac taccggagcg 240
tggagctagt gcagcaggta gacranggac gacgccatct accacgtcac cagmcctgmc 300
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cagcatggcc tgcatctggg aagggaacaca ggttgtccag agcccctggc acaactgtg 720
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813

<210> 182

<211> 822

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (37)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (49)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (370)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (567)

<223> n equals a,t,g, or c

<400> 182

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ccgcgcctat caataaagtt gctcacttgt tgccggcccg ctagmccgaa aggttgcgcg 180  
cgcagmccga gaagtctcgc gatagccagc cgcggctgcc cttgcgcttc ccgagctggc 240  
ggggctccgtg gtgcgggac gagattgcgg gctatggcgc cgaagttttt cgtcagttact 300  
gggatatccc cgatggcacc gattgccacc gcaaagccta cagcaccacc agtattgcca 360  
gcgtcgctgn cctgaccgcc gctgcctaca gagtcacact caatectccg ggcaccttcc 420  
ttgaaggagt ggctaagggt ggacaataca cgttcactgc agctgctgtc ggggcccgtgt 480  
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ttggcgccgc cgcctgcgtg tactttggca tagcggcctc cctgggtcaag atgggcccgc 660  
tggagggtctg ggagggtgtt gcaaaaccca aggtgtgagc cctgtgcctg ccgggacctc 720  
cagcctgcag aatgcgtcca gaaataaatt ctgtgtctgt gtgtgaaaaa aaaaaaaaaa 780  
aaaaaaaaat yggggggggg cccskaacca attkccetta ag 822

<210> 183

<211> 1095

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1082)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1094)

<223> n equals a,t,g, or c

<400> 183

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cctcacctgt tccgcgctct ttctcgggat ctctcggaag aagcagatgc ggattctcat 180
ggttggcttg gatgcggctg gcaagaccac aatcctgtac aaactgaagt tgggggagat 240
tgtcaccacc atcccaacca taggcttcaa tgtagaaaca gtggaatata agaacatctg 300
tttcacagtc tgggacgtgg gaggccagga caagattcgg cctctgtggc ggcactactt 360
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<210> 184

<211> 3675

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2204)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3329)

<223> n equals a,t,g, or c

<400> 184

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ccctgcagac cctgcacctg cgagaccca gcgcacccag agcaacctgc ccaccagcct 180
ggaggggtct agcaacctc cagacgtgga tctgtcctgc aatgacctga cacgggtgcc 240
cgagtgtctg tacaccctcc ccagcctgcg ccgcctcaac ctacgcagca accagatcac 300
ggagctgtcc ctgtgcatag accagtgggt gcacgtggaa actctgaacc tgtcccga 360
tcagctcacc tcactgcct cagccatttg caagctgagc aagctgaaga agctgtacct 420
```

```

gaattccaac aagctggact ttgacgggct gccctcaggc attggcaagc tcaccaacct 480
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cccaaagctg aggaaacttg tctgaacaa gaaccacctg gtgacctcc cagaagccat 600
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gaggaagagg aaggggcctc atccactgtc tgctagcaaa gaatgtactc aggtgacacc 3420
acctgctcca gccacgtcca gtgccacagt cccagtagc ctcaagcagc accaatgggg 3480

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140

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cacgtgtgaa gccccctcac tcttccgcta gggataaagc agatgtggat gccctttaag 3600
agatattaaa tgctttttatt ttcaatatta aaaaaaaaaa aaaaaagggc ggccsctcgc 3660
gatctagaac tagtc 3675
```

&lt;210&gt; 185

&lt;211&gt; 1040

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 185

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ggacagagcc tccactgagc tgctgcctgc ccgccacata cccagctgac atgggcaccg 60
caggagccat gcagctgtgc tgggtgatcc tgggcttcct cctgttccga ggccacaact 120
cccagccac aatgaccag acctctagct ctccaggagg ccttggcggg ctaagtctga 180
ccacagagcc agtttcttcc aaccaggat acatcccttc ctcagagggt aacaggccaa 240
gccatcrtc cagcactggt accccaggcg caggtgtccc cagcagtggg agagacggag 300
gcacaagcag agacacattt caaactgttc ccccaattc aaccaccatg agcctgagca 360
tgagggaaga tgcgaccatc ctgccagcc ccacgtcaga gactgtgctc actgtggctg 420
catttggtgt tatcagcttc attgtcatcc tgggtggtgt ggtgatcatc ctagttggtg 480
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ttcttttaaaa gcaactttgg gtcccatga gtccaaggat gatgcagctg ccctgtgact 720
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aaaaaaaaaa aaaaactcga 1040
```

&lt;210&gt; 186

&lt;211&gt; 817

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (26)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (31)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;



[4]

<221> misc feature  
<222> (76)  
<223> n equals a,t,g, or c

<400> 186  
ancagctata gatcatgaca ggcaanggta nactgacagt acggtcggat tcccggtcs 60  
accacacgct ccgcangagc ggccgggtgg cgggaggaac cgttacggga actgaagttg 120  
cggattaagc ctgatcaaga tgacaacctc ccaaaagcac cgagacttcg tggcagagcc 180  
catgggggag aagccagtgg ggagcctggc tgggattggt gaagtcctgg gcaagaagct 240  
ggaggaaaag ggttttgaca aggcctatgt tgtccttggc cagtttctgg tgctaaagaa 300  
agatgaagac ctcttccggg aatggctgaa agacacttgt ggcgccaacg ccaagcagtc 360  
ccgggactgc ttcggatgcc ttcgagagt gtgcgacgcc ttcttgatgat gctctctggg 420  
aagctctcaa tccccagccc tcatccagag tttgcagccg agtagggact cctcccctgt 480  
cctctacgaa ggaaaagatt gctattgtcg tactcacctc cgacgtactc cggggtcttt 540  
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ccccgtcctt tttcccttgc cagttccctg gtgacagtta ccagctttcc tgaatggatt 660  
ccgggcccca tccctcacc ccaccctcac tttcaatccg tttgatacca tttggctcct 720  
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tcaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaa 817

<210> 187  
<211> 1080  
<212> DNA  
<213> Homo sapiens

<400> 187  
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cgacctgaac gcaaagtccc tgatggacga gacgcccctt gatgtgtgctg gggacgagga 180  
ggtgcgggcc aagctgctgg agctgaagca caagcacgac gccctcctgc gcgcccagag 240  
ccgccagcgc tccttgctgc gccgccgcac ctccagcgcc ggagccgcr ggaaggtggt 300  
gaggcggtg agcctaacc agcgcaccga cctgtaccgc aagcagcacg cccaggaggc 360  
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ccagacaggc gcagagctca ggccgcccgc cccggargag gacaaccccg aagtggtcag 480  
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gcgaccccca cctgaggggc ccgagagccc tgagacagct gagcctggcc tgcctggtga 720  
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<210> 188  
<211> 1286  
<212> DNA  
<213> Homo sapiens

<220>

<221> misc feature  
<222> (1245)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1254)  
<223> n equals a,t,g, or c

<400> 188  
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gcaccatgac tctagtgtc ttggtgtata ttcttacata cctttagtgg aaaatcctta 180  
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ttattacaat tcacatgatt ctttatcact gaattctcca accaatatct cctcactatt 360  
gaaccaggag tcagctgtac tagcaactgc tccaaggata gatgatgaaa tccccctcc 420  
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aaatgttccc aaatccttat cctcagctgt gaaggtaaaa attggaacat cactggaatg 540  
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tctcccagaa agaactctag agtccctctt tcttgccgat gaagattgta tgcaggccca 720  
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ggatgggttt tatttttcca tttttg 1286

<210> 189  
<211> 1738  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (1480)  
<223> n equals a,t,g, or c

<400> 189  
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acgatgccaa agctgcaggg cttcgagttc tggagccgca ccctgcgagg ggcccggcac 120  
gtcgtggccc ccatggtgga ccagagcgag ctggcctgga ggctgctgag ccggcgccac 180  
ggggcacagc tctgctacac gcccatgctg catgcccagg tctttgtccg cracgccaac 240  
taccggaagg agaacctgta ctgagagggt tgccccgagg accggcccct catcgtgcag 300  
ttctgtgcca atgaccgga ggtgtttgtt caggcggctc tcctgggtca ggattactgt 360  
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gcctttctgc aggacgagtg ggacctgctc caaagaatga ttttgctggc ccacgagaaa 480  
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ggcctggaaa tgcctgcagt gggagcaggc cccaggctgg acctgccctg tcctcagcac 1680  
gcgtgtgcaa aagtgaacaa taaatcattt caaagatgaa aaaamaaaaa aaaaaaaa 1738

<210> 190

<211> 1923

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1829)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1875)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1910)

<223> n equals a,t,g, or c

<400> 190

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atgaccgctt ccacgagatg cacgtggctc tgcccagaa ggaccaggag atcgcttcc 180  
tgcgctccat gctgggaaag ctctcgaga agatcgacca gctagagaag agcctggagc 240  
tcaagtttga cgtcctggac gaaaaccaga gcaagctcag cgaggacctc atggagtcc 300  
ggcgggacgc atccatgtta aatgacgagc tgtccacat caacgcgcgg ctgaacatgg 360  
gcatcctagg ctctacgac cctcagcaga tcttcaagtg caaagggacc tttgtgggcc 420

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accagggccc tgtgtggtgt ctctgcgtct actccatggg tgacctgctc ttcagtggct 480
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tggaggggcca tgatggcatc gtgctggctc tctgcatcca ggggtgcaaa ctctacagcg 600
gctctgcaga ctgcaccatc attgtgtggg acatccagaa cctgcagaag gtgaacacca 660
tccggggccca tgacaacccg gtgtgcacgc tggctctcctc acacaacgtg ctcttcagcg 720
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ccgtggctgc ctgctacatg ccctgcttnc acgtggctgc acgctgacac acccacattc 1860
accaaaccga cccgngccct gggacgcaac cacgccagga ggaggacacn ggccgcccag 1920
agc 1923

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&lt;210&gt; 191

&lt;211&gt; 250

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 191

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ccaagtgtgt tgatacatta agctatgaga catctaaaat aatgaaactt ggaacttagt 60
ggaacatgta catgttttca gcatacttaa acccaaaaat cattaatttt cagaacttaa 120
tcagtgtctt tacatttggt ttttctttta tgctagtggg aaatggagga tgaaratata 180
attgrtgtgt tccaacagca gacgggrggt gtctactgaa aagggaacct gcttctttac 240
tccagaactc 250

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&lt;210&gt; 192

&lt;211&gt; 1902

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (19)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (763)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1898)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1900)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1901)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1902)

<223> n equals a,t,g, or c

<400> 192

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ggtgaagggc atttragtgt taaaggttcc gggggtgagt ggaagggacc ccaagtctcc 180
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gtggaaggag gtgtgaaagg aggtcagatt ggactccagg ctcctgggct gagtgtgtct 300
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ccgaaaggca aattctcctt atttaaaagt aagaagccac ggcaccgctg caaattcatt 720
cagtgatgaa agagagtctt ctggaccttc caccgccagc ggnacgctgg agtttgaaag 780
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tgagacaggc aagttacagg ggagtggggt gtccctggcc tctaagaagt cccgactgtc 960
ctcctcttct agcaatgaca gtgggaataa ggttggcatc cagcttcccc aggtggagct 1020
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146

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gtcagtttcc acaaagaaag agtagcaggc ctttgtatgt gtgtacatat atatatatat 1080
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aatttccagc actttaatgg ccaattaact gagaatgtaa gaaaattgaw gctgtacaag 1860
gcaaataaag ckgttattaa cctgaaaaaa aaaaaanan nn 1902

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&lt;210&gt; 193

&lt;211&gt; 560

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (20)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (528)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (535)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (559)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 193

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ttttgcttaa agctatttan gtgacactat agaaggtagc cctgcaggta ccggtccgga 60
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gagactggat ctgttcaaac agcaaagcc cacagatggc ccagaggtgg tggtagtcag 180
gggtgtgtgg tgtttttagg gttcttttagt gttgtttctt tcaccaggg gtgggtgtcc 240
cagccagttt ggtgctgacg gtgagaggaa attagaatct gtttgcaaat tgtccaaccc 300
acccctcaa catgaggggc ttccattttc tgtgttttgt aagggaactg tttccttcatt 360
gccgccatgt tcctgatatt agttctgatt tctttttaac aaatgttatc atgattaaga 420
aaatttccag cactttaatg gccaattaac tgagaatgta agaaaattga tgctgtacaa 480
ggcaataaaa gctgtttatt aaccttgaaa aaaaaaaaaa aaaggggngg cccgncccat 540

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tgccctaggg ggggttaant

560

<210> 194

<211> 590

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (589)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (590)

<223> n equals a,t,g, or c

<400> 194

ctgcaggtac cgggtccggaa ttccgggtcg cccacgcgtc aggcggcggc gatgaccttc 60  
tgccggctgc tgaaccggtg tggcgaggcg gcgcggagcc tgcccctggg cgccaggtgt 120  
ttcgggggtgc ggggtctcgcc gaccggggag aaggtcacgc aactggcca ggtttatgat 180  
gataaagact acaggagaat tcggtttgta ggtcgtcaga aagaggtgaa tgaaaacttt 240  
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gatggcggcg ggggagctct tggccacca aaagtgtata taaacttga caaagaaaca 360  
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tggcacgcgc ggggtcccgc agcatcctgt gagcatttcc gcggggaagc tgagcacgtg 480  
aagctcgctg gttctgtgcg aagggtattc ctggtgctga ataaagggtg ttgctgtcaa 540  
gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaann 590

<210> 195

<211> 691

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (579)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (618)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (639)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (657)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (672)

<223> n equals a,t,g, or c

<400> 195

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agatgagata aaactcatgt gaatatcagt ttttaaggctg gtgggttcatt tgttttgggc 180
atattgagtc aggattgact aatgaactgt agaggttttg cattatgcaa atgctcttaa 240
tttcttgatg taggaattag acgctcccc ccaagtctta aataatgttt taatctgtat 300
ccttttatta taagaagatt agtaatatc tacagataat aacaacaact ggtatagtat 360
atatttatta cattcttcat tcttaggaga aaatgctgag aagcttctgc agttcaagcg 420
ttgggtcttg tcaatagtag agaagatgag catgacagaa cgacaagatc ttgkttactt 480
ttggacwtca agcccatcac tgccagccag tgaagaagga ttccagccta tgccctcaat 540
cacaatawga ccaccagatg accmacatct tcctactgna aaatacttgc atttcttgga 600
ctttaccttc cactctntt cctttaaaca ggattcttna aaccggaaat tgggtanctc 660
gccatttagg anccaaaaat tttgggtttt g 691
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<210> 196

<211> 1772

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1749)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1769)

<223> n equals a,t,g, or c

<400> 196

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gnataatgct ggccattttg ctttctgac atttccttgg gaatctgcaa gaacctcccc 60
tttcccttcc cmcaataaga ccatttaagt gtgtgytaaa caactacrga atactaaata 120
aaaagtttgg ccaaaaccaa ccatgaagct gcaaagggtc ttgctcttac ttttcaaat 180
```



```
ttttgcaact ctartgtctc actttttaaag gaacagcttg attgcaaagg agaaaataga 240
taagcaatga akttatctcc aacttcctaa aggccttatga cttctaaaaa gtgaatctat 300
cagcattcca catcagattt aaagcatcaa atgcctgtga aacagcaaag atggttgaag 360
attgtgctca ttatgtttgt ggagtgtgta ttgattcaca gtagataacg ctggcagtaa 420
gagaaatcaa atgctaagag ttgttgaagc agaaggcggc tgattgttgg taagtcagtg 480
cagttgcata agcagtgtcg tcagaattgg ttggtgcag gcaatagatt ttgccttcaa 540
gggttcctgt ggatctcagg aaggcatcag tgttgattaa cactcataac tagggagtga 600
stggtagtta cttaagtaat tgaccaaag gaaaagggga agtaattaag gaaatttgta 660
agtggaggta gtcaggargt tctygtggtt cttacayag attttacagc tttggstttc 720
attttgttta gctaaagtca tggggacaac tcttcaattt agaacttaag ttgaattata 780
aaaatgatgg atataagtgg tagctgtatc tagtgaagtg tctgtcagta agtgaaacat 840
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ctggaaagta accatgctaa gatggcaagc aactggaaa caattaggcc acttggtttt 960
cttttgctgt attgttttat aagcctactt tacctcccag tcttggaac aagttttagt 1020
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gttgttgat tagaggaact aacccaactt atatgatttt ttttttgtt ttgtcgtgta 1140
gttatggcac tgtcttattt ggaacatttg caactaggga taatacaaca tttttaactc 1200
tcatttgaca acctactact aatcacagac cacaagggtg atgaccaa attggtggtt 1260
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cgcytctgtg aggaccttct ggctcttgag ataccctaaa tatttaagat atttagatat 1380
cttgaagata gtataggata tagagattgt accaaatagg aatataagga gtatgttaa 1440
atgaccagat acctgtttga tagtttactg acctagcaga tgtgtggaaa aggaatcaga 1500
tcttgattct tctgggttta tactggttgt aaaacagaat gatacagaaa atgttttcct 1560
tgtttaactg gtagttgaac atagaacttg ggtattatag atcacttttc actttttgga 1620
atgttttga ttgaaactta ataaaacttt aacatggcaa aaaaaaaaaa aaaaaaaaaa 1680
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1740
aaaaaagana aaaaaaaaaa ggggggccnc cc 1772
```

<210> 197

<211> 675

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (657)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (671)

<223> n equals a,t,g, or c

<400> 197

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accacgcgt ccggaacttc tcttcgttaa gtcggccttc ccaacatggc gcagtctatt 60
aacatcacgg agctgaatct gccgcagcta gaaatgtca agaaccagct ggaccaggaa 120
gtggagtctt tgtccacgtc cattgctcag ctcaaagtgg tacagaccaa gtatgtggaa 180
gccaaaggact gtctgaacgt gctgaacaag agcaacgagg ggaagaatt actcgtccca 240
ctgacgagtt ctatgtatgt ccctgggaag ctgcatgatg tggaacacgt gctcatcgat 300
gtgggaactg ggtactatgt agagaagaca gctgaggatg ccaaggactt cttcaagagg 360
aagatagatt ttctaacc aa gcagatggag aaaatccaac cagctcttca ggagaagcac 420
```

```

gccatgaaac aggccgtcat ggaaatgat agtcagaaga ttcagcagct cacagccctg 480
ggggcagctc aggctactgc taaggcctga gagtttttgc agaaatgggg cagagggaca 540
ccctttgggc gtggcttcct ggtgatggga agggctctgt gttttaatgc caataaatgt 600
gccagctggg caraaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaccccnngg 660
gggggcccgg nacc 675

```

<210> 198

<211> 557

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (451)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (461)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (464)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (488)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (492)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (495)

<223> n equals a,t,g, or c

<400> 198

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tttaggtgac acgtatagaa ggtcgctgc aggtaccggw ccggaattcc gggtcgaccc 60
acgcgtccgg gaacacaaga tgccgaaggg aagaaggcga aggggaagaa ggtggccccg 120
gcccccgccg tcgtgaagaa gcaggaggcc aagaaggtgg tcaaccgct gttcgagaag 180
cggcccaaga acttcgcat cggtcaggac atccagcca agcgggacct gacgcgcttc 240
gtcaagtggc cgcgtacat ccggctgcag cggcacgcgc gatcctctac aagcggctga 300
aggtgcccgcc cgccatcaac cagttcacgc aggcgctgga ccgccagacg gccacgcagc 360
ttgcttgaa ctggcgcaac attaccggcc cgagacgaag caggagaaga agcagcggtt 420
gttgccccgg gcggaagaaga aarcggccgg ncaaggggga nttncgaac aagcggsgcc 480
cggtgtnttc gnaancgggg ttgaaaacgg ttcaacaagt tggttgagaga acaagaaggc 540

```

gccattgggtt cggttatt

557

&lt;210&gt; 199

&lt;211&gt; 2611

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (3)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2549)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2560)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2585)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 199

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cgacaaggac tggaggcccc gctgtacctc acccccagagg gctgggtccct cttcctccag 120  
cgctactacc aagtgggtcca cgaaggggca gaactcaggc acctcgacac tcaggtccag 180  
cgctgtgagg acatcctgca gcagctgcag gccgtggtac cccagataga catggaaggg 240  
gatcgcaaca tctggatcgt gaagccagga gccaaagtccc gcggacgagg catcatgtgc 300  
atggaccacc tggaggagat gctgaagctg gtgaacggca accccgtggg gatgaaggac 360  
ggcaagtggg tgggtgcagaa gtatatgtag cggcccctcc tcactcttgg caccaagttt 420  
gacctcagac agtggttcct ggtaactgac tggaaaccac ttaccgtgtg gttctaccgc 480  
gacagctata tccgcttttc cacgcagccc ttctccctga agaacctgga caactcagtg 540  
cacctgtgca acaactccat ccagaagcac ctggagaact catgccatcg gcatccactg 600  
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gccccaaatg cttgggtccac catcatcgtg cctggcatga aggatgctgt gatccacgca 720  
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gacttcgtgt tcggggagga cttccagccc tggctgattg agatcaacgc cagccccacg 840  
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cgcggtgtca ttgaccggak gctggaccgc aactgtgaca caggagcctt tgagctcacc 960  
tataagcagc ctgctgtgga ggtgcctcaa tatgtgggca tccggctcct ggtagagggc 1020  
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ctctgctgac ccagcgaggc tctggggaag gcaaggactc ggggaccctt acccacaggt 1140  
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ctgccaccac ttacgcccc ggaaagggga agaaagccga ggtatcagga agtttaagg 1260  
agttgcccaa ggttgccacag ctcaagaagg gcacagctgg gatgcagacc cagcccgta 1320  
ccacttcccc agcctccaca ccaaggccca gctgccttct ccccatgtac tccgacacca 1380

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gggccaggtc ctcagacgac agcacagcaa gctgggtgggc actaaggccc tgtcgaccac 1440
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tgatttcaag gtggcaccca gcatcctgaa gccaagaaag gtgggcctcg acctgtgact 1560
cacaccaggt ggacagtgtc gagcacgggg tcagggtgg agggcacagg cagagggcag 1620
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tggtacattc cagaggcgca ggggcctggg ggatatgaag ctagggaagc ccctgtctcg 1980
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<210> 200

<211> 2316

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2280)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2282)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2302)

<223> n equals a,t,g, or c

<400> 200

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ccctcagctc tcccctgccc ttactcatg gaagtcttca ggcaagtttt tcaattacaa 180
gggactgcgt atcttctacc aagactctgt ggggtgtggtt ggaagtccag agatagtgt 240
gcttttacac ggttttccaa catccagcta cgactggtac aagatttggt aaggtctgac 300
cttgaggttt catcgggtga ttgccctga tttcttaggc tttggcttca gtgacaaaacc 360
gagaccacat cactattcca tatttgagca ggccagcatc gtggaagcgc ttttgcgga 420
tctggggctc cagaaccgca ggatcaacct tctttctcat gactatggag atattgttgc 480

```

```

tcaggagctt ctctacaggt acaagcagaa tcgatctggt cggcttacca taaagagtct 540
ctgtctgtca aatggaggtg tctttcctga gactcaccgt ccactccttc tccaaaagct 600
actcaaagat ggaggtgtgc tgtcacccat cctcacacga ctgatgaact tctttgtatt 660
ctctcgaggt ctcaccccag tctttgggcc gtatactcgg cctcttgaga gtgagctgtg 720
ggacatgtgg gcagggatcc gcaacaatga cgggaactta gtcattgaca gtctcttaca 780
gtacatcaat cagaggaaga agttcagaag gcgctgggtg ggagctcttg cctctgtaac 840
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gtgtattcca cttaggaaga aatgcccata agaggtcctg gccatcaaac ataattctct 1140
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cagagatgta ctgtttattag ctgggaagac caattctaac agcaaataac agtctgagac 1860
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tggtgtgtag tcaagtcacc atgctgaatg tacactgatt cctttatgat gactgcttaa 1980
ctccccactg cctgtcccag agaggctttc caatgtagct cagtaattcc tgttacttta 2040
cagacaggaa agttccagaa actttaagaa caaactctga aagacctatg agcaaattgt 2100
gctgaatact ttttttttaa agccacattt cattgtctta gtcaaagcag gattattaag 2160
tgattattta aaattcgttt ttttaaatta gcaacttcaa gtataacaac tttgaaactg 2220
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```

<210> 201

<211> 1147

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (11)

<223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (12)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (19)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (1145)  
 <223> n equals a,t,g, or c

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 cttcggttcga gaacaactgt gagatcggct gctttgcca gctcaccaac acctactgtc 180  
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 gcaacagcct cccagacaca gtgcagatta ggcgggtgga ggagcggctc tcagccttgg 420  
 gcaatgtcac cacctgcaat gactacgtgg ccttgggtcca cccagacttg gacagggaga 480  
 cagaagaaat tctggcagat gtgctcaagg tggaagtctt cagacagaca gtggccgacc 540  
 aggtgctagt aggaagctac tgtgtcttca gcaatcaggg agggctggtg catccaaga 600  
 cttcaattga agaccaggat gagctgtcct ctcttcttca agtccccctt gtggcgggga 660  
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 ccacattccg cccaatctgt accggatgct ggcaggaggg tggcagagag ctcactggga 960  
 ctgaggggct gggcacccaa cccttttcca cctgtgctta tcgcctggat ctatcattac 1020  
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 gctgtcctgt gccaccccat taaagtgcag ttccctccgg aaaaaaaaaa aaaaaaaggg 1140  
 cggcnac 1147

<210> 202  
 <211> 688  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (477)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (684)

<223> n equals a,t,g, or c

<400> 202

```
acgtaccggt ccggtaatc ccgggtcgac ccacgcgtcc gctcggcggg cgctgttgag 60
ggagtcgggc cgcgactgtg gtcgttttta taccttcccg cgcggacgcc ggcgctgcca 120
acggaagggc gggtaggacg gagtttcgtc atgttgacca ggcccatttg agatctttga 180
agatatcctc aacgtgaggc tctgctgcca tgaagggtgaa gattaagtgc tggaacggcg 240
tggccacttg gctctgggtg gccaacgatg agaactgtgg catctgcagg atggcattta 300
acggatgctg ccctgactgc aagggtgcccg gcgacgactg cccgctgggtg tggggccagt 360
gctccactg cttccacatg cattgcatcc tcaagtggct gcacgcacag cagggtgcagc 420
agcactgccc catgtgccgc caggaatgga agttcaagga gtgaggcccg acctggntct 480
cgctggaggg gcacctctgag actccttcct catgtggcg ccgatggctg ctggggacag 540
cgcccctgag ctgcaacaag gtggaaacaa gggctggagc tgcgtttgtt ttgccatcac 600
tatgttgaca cttttatcca ataagtgaat actcatataa ctactcaaat cttaaaaaaa 660
aaawaaawaa atctcggggg gggncccg 688
```

<210> 203

<211> 304

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (269)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (287)

<223> n equals a,t,g, or c

<400> 203

```
aaatgtgaaa actaaggcct tgcaagccta tgggtcaccc aggggtagga tcaggcacct 60
taactctaga gccattctc ctaaccactg agccatgatt gtcttacaat tttgaatact 120
gcaaaaactgg aagaattgtc tggtattat ctaagctggt cataagctgg aacaagtaga 180
tctgagggtg agaggagttc tgttttaact aggactgagt ttcaaataga gatgtttcag 240
actatagagg gggaaaaatg gcckgggang tccataaatc taagccngtt tcatggatgt 300
tttt 304
```

<210> 204

<211> 417

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (380)

<223> n equals a,t,g, or c

<400> 204

```
gggtcgaccc acgcgtccgc gcgggcgggg acggagctcg gcgtgcttgc tgctggaggg 60
```

```

tgatggccct gcaaggctgt gggctccgac ctcaccggga gtcgamarcg agaggttcgc 120
cgaagagcga ggttctgggc gagcgctgaa cgccggcccc aagcaccggtt ggtctttaca 180
cagtcgcgct ccacagactc tgacgaagac gtggatctgc tctcgcttta gctgctcgcg 240
gtcctccaga tcatgtccgc gactcctgcg actccgcgcg gaaaaaaaaag ttgcccaggc 300
gtggactcaa tgacytttcc aastgtgcmc ctcgytgctt ggaccgggtt gagcgcgggtt 360
gcccaagttg aactttttgn ggggagggtt ttctctaagg gctgttgtct caatggg 417

```

<210> 205

<211> 551

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (450)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (458)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (471)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (484)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (519)

<223> n equals a,t,g, or c

<400> 205

```

gggtcgaccc acgctgccga ctagttctag atcgcgagcg gcccgccctt tttttttttt 60
tttttttttt tggtttccag agtttggtt tattttgcag tacagaaatc atctggagcc 120
gtctgagaca gacatccctg aagcggagcg tctgtcaaat caatactgct tcgcacttrg 180
tccgttgagg aagccacacc tggggtacaa aagaagcttc tacgtttacc cgtgttacca 240
cggatttctt tcccccttgc tcttaccat tttaccagg gaaaacaccg cacagaggct 300
tccctcgga tgacgctcgg gtctggagtt gggttagaat tgtgggccc cgtgaccccc 360
acctgtggct gtgttcctg gccctgtcct aaacagctga cgggacacag acgtagaggg 420
gcggggccac gcagggatgc tgttcccaan tcacgganta tctggtggg ntcgcaatgg 480
ccantgggac agatggcacg tgaaaggggc cgttccggnt ctcaagcggc agaagcaca 540
gaccgcggag g 551

```

<210> 206

<211> 1101



<212> DNA  
 <213> Homo sapiens  
 <220>  
 <221> misc feature  
 <222> (21)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (479)  
 <223> n equals a,t,g, or c

<400> 206  
 tcccgggtcg acccacgcgt nccgcccgt ggaggctgga gcttccgggc cctggaaagg 60  
 ggtccccgcg cgccccgggt cggaggcaga cccctgggtt tgggggacat gggcatttgg 120  
 ggcgcctgaa cccaagacct ctggatgagc tgccccgttc agaccatgga tcctgagggtg 180  
 accttgctgc tgcagtgcgc tggcgggggc ctgccccagg agcagataca ggccgagctg 240  
 agccccgcgc atgaccgtcg cccactgcc aagtggggac aggccatcac tgccatctgg 300  
 gagaccggc taaaggccca accctggctc ttcgacgccc ccaagttccg cctgcactca 360  
 gccaccctgg cgcctattgg ctctcggggg ccacagctgc tcctgcgcct gggccttact 420  
 tcctaccgag acttcctggg caccaactgg tccagctcag ctgcctggct gcgacasang 480  
 ggtgccaccg actgggggtga cagcaggcc tatctggcgg acccactggg ggtgggcgct 540  
 gcactagcca cagccgatga cttccttgy ttcctgcgcc gctccccgca ggtggctgag 600  
 gcccttgggc tgggtggacgt acctgggtgg caccctgagc ctcaggccct gtgccctggt 660  
 ggcagccccc agcaccagga cctcgttggg cagctggtgg tacatgaact cttttccagt 720  
 gtccctcagg agatctgtga tgaggtgaac ctgccgctgc tcaccctgag ccagccccctg 780  
 ctgttkggca tcgcccga aa tgagaccagt gctggccgag ccagtgccga gttctatgtc 840  
 cagtgcagcc tgacttctga gcaggtgagg aagcactacc tgagtggggg acccgaggcc 900  
 cagcagctca caggaatctt ctttgtggag acacagaacg tgcggagatt gcccgagacg 960  
 gagatgtggg ctgaactctg cccctcgcca aaggcgccat catcctctac aaccgggttc 1020  
 agggaaagtcc cactggagcg gccctagggt cccagccct actcccgccg ctctgaaaat 1080  
 aataaacgac tttattcttg g 1101

<210> 207  
 <211> 515  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (428)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (439)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature

<222> (449)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (456)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (474)

<223> n equals a,t,g, or c

<400> 207

```
gggtcgaccc acgcgtccgc ccacgcgtcc ggcr gataga gcgccatgaa ggcctcgggc 60
acaactgcgag aatacaaggt ggtggggcgc tgcctgcccc ccccaaatg tcgcactccg 120
ccgctgtatc gcatgcgaat ctttgcacct aatcacgtgg tcgccaaagtc ccgcttttgg 180
tactttgtgt ctcagctgaa aaagatgaag aagtcctcag gggaaatcgt ctactgtgga 240
caggtgtttg agaaatcccc cttgcgagtg aagaacttcg gcatctggct gcgctatgac 300
tcgagaagcg gtacccacaa catgtaccgg ggagtaccgg ggacctgacc amcgcgggcg 360
ccgtcaccca gtggttaccg agacatgggc gcccgacacc gttgcccag cgcattcgat 420
tccagatnct tgaagtggna ggagattgnc agccancaat tgccgcccgg ccancattca 480
agcatttcca aggattccaa gatcaattcc cattg 515
```

<210> 208

<211> 269

<212> DNA

<213> Homo sapiens

<400> 208

```
aagcattgtg ggtaaaggcc tggaggcagg aaagtgaagg acaatttcaa gaaactcagt 60
tcatcaattt tcatcaacac cttcctgggc catgcctggg tactgagraa cccagcccgt 120
aatctggaca tcattttccc tttcagagca tagaatgcag ggggatccag ggaatgggtt 180
aacagaagag gaagctggwt caaggagacc tttgcgtacc aggtgaaggt gtttgaactt 240
tgttcttgca ggcaggcaga gcacggaca 269
```

<210> 209

<211> 734

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (278)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (732)

<223> n equals a,t,g, or c

<400> 209  
cgactggttg ttaccgagga agatggcggc gccagacccg aggcgctagg gaagatcgca 60  
ccgcgggacgc ccgctgagct tggcgacacg gccgaccagg agctggtgac tgccctcatg 120  
tgtgatttgc ggcggccagc ggcagggtgg atgatggact tggcctacgt ctgtgagtgg 180  
gagaaatggt ccaagagcac ccactgccc tgggtgcccc tggcctgcgc ctggtcctgc 240  
cgaaatctca tcgccttcac catggacctg cgcacgantg accaggacct gacccgcatg 300  
atccacatcc tggacacgga gcacccctgg gacctgcact cgatcccctc agagcaccac 360  
gaggccatca cctgcctgga gtgggaccag tcaggctccc ggctcctgtc agcagatgcc 420  
gacgggcaga tcaagtgtg gagcatggcg gaccacctgg ctaatagctg ggagagctca 480  
gtgggcagcc tagtggagg ggacccatt gtggccctgt cctggctgca caatggtgtg 540  
aaactggccc tgcacgtgga gaagtcgggc gcctccagct tcggggagaa gttctcccga 600  
gtcaagtctt caccygttct cacgctgttc ggcggcaagc catggagggc tggatcgcg 660  
tgacggtcag cggcctggtc accgtgtccc tgctgwaasc agcgggcagg tgctgacgtc 720  
caccgagagc tntt 734

<210> 210  
<211> 658  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (561)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (567)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (577)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (580)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (636)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (654)  
<223> n equals a,t,g, or c

<400> 210

160

```

cccgccagcg ttgaggttta tcacgacagc ctgtgccgaa aaatctggcg tgaggatgat 60
aaatggcatg tcatttttcg tgcagacggc tgggagcaac atattaccgc ccgctatctg 120
gtcggtgccg atggcgcaaa ctcgatggtg cggcgacatc tctaccgga tcatcaaatc 180
cgtaaatatg tcgctatcca gcagtgggtc gcggagaaac atccggtgcc gttctactcc 240
tgcattcttg ataattcgat aactaactgt tattcatgga gtatcagcaa agacggktat 300
tttatctttg gcggtgccta tccaatggaa agacggtcag acgsgtttca sgacgcttra 360
agagaaaaatg agcgcccttc agttccagtt tggtaagacg gtgaaaagcg aaaaatgcac 420
gggtgctggt tccctcgcg caggcaggatt ttgtctgagg taaggacaac gcctttcttg 480
attggtgaac ggcgggattt atcagcgcca gctcgctgga agggattagc tatgctgctg 540
atagcacaga catttctgag ntcgtgntac tgaacancn gagaagctca ataccgttac 600
tggcgcgcca cccgaaactg ggttaaactc ttcgnaaga tataaaaagc catnctga 658

```

&lt;210&gt; 211

&lt;211&gt; 204

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (91)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (94)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 211

```

attcggagag ccatctctga cagttagagc cgatatcact ggaagatatt caatcgtctc 60
tatgcttacg acctgcagat acagtctgtt nttncacatg aagaaagtct caagttgctg 120
aagactgaat tgtaagaaaa atctccagcc cttctgtctg cagcttgaga cttgaaccag 180
agagtgtgag agctgctgtt ggag                                     204

```

&lt;210&gt; 212

&lt;211&gt; 1271

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1222)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 212

```

ttccgcagcc ttgccccagc ccaactcccc tctcaccta ccacagagca tggtaaatac 60
caagcccagag aagacggagg aggactcaga ggaggtgagg gagcagaaac acaagacctt 120
cgtggaaaaa tacgagaaac agatcaagca ctttggcatg cttcgccgct gggatgacag 180
ccaaaagtac ctgtcagaca acgtccacct ggtgtgagag gagacagcca attacctggt 240
catttggtgc attgacctag aggtggagga gaaatgtgca ctcatggagc aggtggccca 300
ccagacaatc gtcatgcaat ttatcctgga gctggccaag agcctaaagg tggacccccg 360
ggcctgcttc cggcagttct tctaataagat taagacagcc gatcgccagt acatggaggg 420

```

```

cttcaacgac gagctggaag ccttcaagga gcgtgtgctg ggccgtgcca agctgcgcac 480
cgagaaggcc atgaaggagt acgaggagga ggagcgcaag aagcggctcg gccccggcgg 540
cctggacccc gtcgaggtct acgagtcctt ccctgaggaa ctccagaagt gcttcgatgt 600
gaaggacgtg cagatgctgc aggacgccat cagcaagatg gacccaccg acgcaaagta 660
ccacatgcag cgctgcattg actctggcct ctgggtcccc aactctaagg ccagcgaggg 720
caaggaggga gaggaggcag gtcctgggga ccctactg gaagctgttc ccaagacggg 780
cgatgagaag gatgtcagtg tgtgacctgc ccagctacc accgccacct gcttccaggc 840
ccctatgtgc cccttttcag aaaacagata gatgccatct cgcccgctcc tgacttcctc 900
tacttgctgt gctcgcccca gcctgggggg ccgcccagc cctccctggc ctctccactg 960
tctccactct ccagcgccca ttcaagtctc tgctttgagt caaggggctt cactgcctgc 1020
agccccccat cagcattatg ccaaaggccc ggggggtccg ggaagggcag aggtcaccag 1080
gctggtctac caggtagttg gggagggtcc ccagccaagg ggccggctct cgtcactggg 1140
ctctgttttc actgttcgtc tgctgtctgt gtcttctatt tggcaaacag caatgatctt 1200
ccaataaaag atttcagatg cnaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaacaaaaaa 1260
aaaaaaaaaa g 1271

```

<210> 213

<211> 1025

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (991)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1007)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1019)

<223> n equals a,t,g, or c

<400> 213

```

cggacgcgtg ggcgagcgtg atagccaaca ggaaccggga gcgggggtccc gggactggga 60
agaaacggcg gccgggaggg ggctccgggg accatggggc tcctgaccat tctgaagaag 120
atgaagcaga aagagcggga gctgcgactg ctcatgcttg gcctggacaa tgctggaaaag 180
acaaccatcc tgaagaagtt caatggggag gacatcgaca ccatctcccc aacgtgggc 240
ttcaacatca agaccctgga gcaccgagga ttcaagctga acatctggga tgtgggtggc 300
cagaagtccc tgcggtccta ctggcggaac tactttgaga gcaccgatgg cctcatctgg 360
gtagtggaca gcgcagaccg ccagcgcatg caggactgcc agcgggagct ccagagcctg 420
ctggtggagg agcgcttgcc cggagcaacc ctctcatct ttgctaataa gcaggacctg 480
cctggagcac tgtcctctaa cgccatccgc gaggyccctg agctggactc catccgcagc 540
caccactggt gcatccaggg ctgcagcgcc gtcaccgggg agaacctgct gccgggcatc 600
gactggctcc tggatgacat ttccagccgc attttcacag ctgactgaac cactccagat 660
gccccccacc tagcagtcca ggtccctcaa ccttcaccaa aactaccaca tgggggggtg 720
ggagtcagcc ggccaaacta aactccccc tcctccaccc cagcctgctg ctgctactgc 780
tgcccgcgtc tgctctgtgg ccaccgggct cccatggcgg gagggctgtg ccctggctgt 840

```

162

```

ctctctggct cctgacctgg cctttggcta ccataccaag aagagagggc tgggcgggga 900
ggagctgcta ctgctgctac cgaggctgtg ggccctcatcc ttacttcagt tgtgaaataa 960
accgctcctt gccccgmaaa aaaaaaaaaa naaaaaaaaa aaaaaanccc ggggggggnc 1020
ccgga                                           1025

```

&lt;210&gt; 214

&lt;211&gt; 351

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (332)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 214

```

ggcacgagtr aactatatac ctcaaagaat tagaaaaaga agaacaaact aagctcaaag 60
ttagcagaag gaaggaaata gtaaatatta cagcagaagt aaagtagagg ctagaaaaat 120
aataaaaaag atcaacaaaa tggatattgt tctcatacta tgataaagac atacttgaga 180
accgcattat ttatggggaa aagaagttta attgactcac agttccacag gctgtacagg 240
aggcatggct tagggaggcc tcagggaaac ttagratcca tggtggaagg tgkargagga 300
agcatgcacc atcttcactg gccagagcag gnggagagag agcaaatttg g      351

```

&lt;210&gt; 215

&lt;211&gt; 1087

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1075)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 215

```

gctggagtc cagtccaccc gccacgccc agcagggcct gtccgccttc tacctctcct 60
actttgacat gctgtaccct gaggacagca gctgggcagc caaggcccct ggggccagca 120
gtcgggagga gccacctgag gaggctgagc agtgcccgtt cattgacagc caagcccag 180
cgggcagcct ggacttggtg cccggcgggc tgaccttga ggagcactcg ctggagcagg 240
tgcagtccat ggtggtgggc gaagtgtca aggacatcga gacggcctgc aagctgtca 300
acatcaccgc agatcccatg gactggagcc ccagcaatgt gcagaagtgg ctctgttga 360
cagagcacca ataccggctg ccccccattg gcaaggcctt ccaggagctg gcgggcaagg 420
agctgtgcgc catgtcggag gacagttcc gccagcgtc gcccttgggt ggggatgtgc 480
tgcacgccc cctggacatc tgaagtacg cggcctggat gaaagagcgg acttcacctg 540
gggcgattca ctactgtgcc tcgaccagtg aggagagctg gaccgacagc gagggtggact 600
catcatgtc cgggcagccc atccacctgt ggcagttcct caaggagtgt ctactcaagc 660
cccacagcta tggccgcttc attaggtggc tcaacaagga gaagggcac ttcaaaattg 720
aggactcagc ccaggtggcc cggtgttrgg gcatccgcaa gaaccgtccc gccatgaact 780
acgacaagct gagccgctcc atccgscagt attacaagaa gggcatcatc cggaagccag 840
acatctycca gcgscctcgtc taccagtctg tgaccccat ctgagtgcct ggcccagggc 900
ctgaaacccg ccctcagggg cctctctcct gcctgccctg cctcagccag gccctgagat 960
gggggaaaac ggcagtctgc tctgtgtctc tgaccttcag agcccaaggt caaggagggg 1020

```

caaccaactg cccaggggga tatgggtcct cttggggcct tcgggaccct ggggncaagg 1080  
ggctttc 1087

<210> 216

<211> 1977

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (11)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1873)

<223> n equals a,t,g, or c

<400> 216

cgctgcngg naccgggtccg gaattcccgg gtcgaccac gcgtccggca gaagaagagg 60  
aggaggaaga tgaggaagag gaggaagaag aggaggagga ggaggaagaa gaggctcagc 120  
agcgagggca gggagagaag tcagccacgc cctcacggaa gattctggac cctaactg 180  
gggagccagc tcccggtgctg tcctcccac ctctgcaga cgtctccacc ttcttggtt 240  
ttccctctcc agagaagctg ctgcgcctag ggcccaagag ctccgtgctg atagccagc 300  
agactgacac gtctgacccc gagaagggtg tctctgcctt cctaaagggtg tcatctgtgt 360  
tcaaggacga agctactgtg aggatggcag tgcaggatgc agtagatgcc ctgatgcaga 420  
aggctttcaa ctctcgtcc ttcaactcca acaccttctt caccaggctc ctctgcaca 480  
tgggtctgct caagagtga gacaagggtca aggccattgc caacctgtac ggccccctga 540  
tggcgctgaa ccacatggtg cagcaggact atttcccaa ggcccttgca cccctgctgc 600  
tggcgctcgt gaccaagccc aacagcgccc tggaatcctg ctctctcgcc cgccacagtc 660  
tgctgcagac gctgtacaag gtctagactc aaagcctctc ccattccctg gcctggacca 720  
gtgagctggg gagggactcg gatgaactga ggcgcagcct acgccattgc cttggacagg 780  
actctggcca caggcagggc gggctctgtgt cccatgtgtc ctgtcagtc cctgagtatg 840  
tgtgtgggtg tggcgcatgt gcaggctctgt gcctcctgtc gggatttggg ttttaacgtc 900  
ttctgctggc ccagccctgc tctgttgtgg ggagtgtggc cccaggggaa agggctgtga 960  
gctgctccgc cattaaactc acctccacct gagggcgctc tgctgatctc cgctggggc 1020  
ctgatggccg tccccacca cctgccttcc ggcccggtc cctggcgagg caraaccar 1080  
ggagtgtccc gcgtgctgtc ctccccctct gtgttgtgat tgggttgttt cctgccctgc 1140  
ctggggctgc ttctcgtcac caagccctgg tcctgcggca gctgtcacc ctaccatcca 1200  
taccactgtg ctgaccgctc agcctgaaga gcagagaatg ccatgggtgg gactgtgggg 1260  
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<210> 217

<211> 2815

<212> DNA

<213> Homo sapiens

<400> 217

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<210> 218

<211> 1645

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (347)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1643)

<223> n equals a,t,g, or c

<400> 218

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gaggctgagc gtgatctga acaccacagc ccctgtactt gggttgcctc ttgtccctga 1440
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aatcaaggaa gccatcatta aattgtttta tttctctcaa aaaaaaaaaa aaaaaaccaa 1560
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1620
aaaaaaaaaa aaaaaaaaaa aangg 1645
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<210> 219

<211> 478

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (344)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (415)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (452)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (469)

<223> n equals a,t,g, or c

<400> 219

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gaaagtgcag gaggtgaaag tcagttcttc ggtgctcaaa gctgccgccc atcactatgg 180
agttcagtgt gacaagccca acaaggagtt catgctctgc cgctgggaag aaaaagaccc 240
ccggcgggtgt ttagaggaag gcaagctcgt caacaaktgt gctctggayt tcttcaggca 300
gataaagctt tcaactgtgca gagcctttta cagactattg gacntgcac gactactccg 360
gcctgcagtg ttttcgtcgc tgccgcaaac agcaggccaa tttgacgatg tgtgnggggc 420
aactgggatg gtgcggctga actggggaaa angttccagt caccaaantg aaaacagt 478
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<210> 220

<211> 832

<212> DNA

<213> Homo sapiens

<400> 220

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cagcccctcc cttgtgtttc aaccaatcgg aagtgaattt aactagatgt agtaaccttt 180
tttttcttta cttctaaaaa agttacagtt tactaataaa gttaagtctg gttctgtcct 240
agaggaaata aattcactat taattcatgt cttaagttac ttgggttaaa acactttcag 300
ccacccagat taattaaagt ggagcagtggt agcccctggc tgggagatgg cctccagagg 360
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tgcataatga aagcatgtgt tcacactgtg tgtaaacatt cactgaagat ttttctttg 720
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<210> 221

<211> 1892

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1892)

<223> n equals a,t,g, or c

<400> 221

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aagtcttggc aggcctgtgc cgcagctgct gctgcagttt ggggtgctct tctgcaccat 660
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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa an

1892

&lt;210&gt; 222

&lt;211&gt; 868

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (23)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (31)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (45)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (829)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (860)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 222

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cccatgatgc ccaaggccat ccaagggcat ctgaagacca acccagctct ggaaaacctg 120  
ttacttcata tccgggggaa tgtggctttg tgttcaccaa ggaggcctca cttgagatca 180  
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<210> 223

<211> 1516

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1493)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1497)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1508)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1509)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1516)

<223> n equals a,t,g, or c

<400> 223

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cgatggggat ggaagaggag atgcctgtga tgatgacatg gatggagatg gaataaaaaa 180  
cattctggac aactgcccaa aatttcccaa tcgtgaccaa cgggacaagg atggtgatgg 240  
tgtgggggat gcctgtgaca gttgtcctga tgtcagcaac cctaaccagt ctgatgtgga 300  
taatgatctg gttggggact cctgtgacac caatcaggac agtgatggag atgggcacca 360  
ggacagcaca gacaactgcc ccaccgtcat taacagtgcc cagctggaca ccgataagga 420  
tggaattggt gacgagtgtg atgatgatga tgacaatgat ggtatcccag acctggtgcc 480  
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cggagtggga gacatctgtg agtctgactt tgaccaggac caggtcatcg atcggatcga 600  
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tatatatatt aacttcaatt ttcttttagt tttaccaacc caaatatata aaaacgtttt 1440
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gggcccgnnn caattn 1516

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<210> 224

<211> 1306

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (148)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (887)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1242)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1264)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1303)

<223> n equals a,t,g, or c

<400> 224

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gctggacgag gtcatggctg ccgctgnst tacaagcctg tccaccagcc ctctccttct 180
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ctactacaca gagctggatg ttggtgtgga cacgctgacc gacgggctgt ccagcctgac 600

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tttttgact aaaagccaaa aaaaaacggg gttcccttta gncccaagg ggccttgggg 1260
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<210> 225

<211> 584

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (486)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (542)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (562)

<223> n equals a,t,g, or c

<400> 225

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ggcagaaaty gcscagttga tgcrytgat catcaayacy ttctactcga acaargagat 180
cttcttgccg gactgatctc caactcgtcc gacgctcygg aaaaaatccg atacgagagc 240
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aagcaggacc ggaccctcac catcgtggga taccgggac gcattgacaa ggccgacctg 360
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gcggggcgcg atatttcyat gattggccag ttcggggctcg ggttctattc ggcctacttg 480
gtggcnagaa ggtgacggtg atcaccaagc acaacgatga cgagcattac gcctgggagt 540
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<210> 226

<211> 523

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature  
 <222> (34)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (498)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (514)  
 <223> n equals a,t,g, or c

<400> 226  
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 gaccatgcca aagcacagtg tgatctcctg gggcccggca tggctgacat gtgcaagaac 180  
 tatatcaacc agtattcgga cattgccgtc cagatgatga tgcacatgca acccaaagag 240  
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 cctgccaaag cggctcaga gaacgtcatc cctgcattgg aactggtgga gccattaaag 360  
 aaggacacgg tccaggcaaa gaccagtgtt agctgtggag atatgcgagt tacgtggttg 420  
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<210> 227  
 <211> 2377  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (2369)  
 <223> n equals a,t,g, or c

<400> 227  
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 ggtccaaagtc caagtcctcg tcggtctcca gatctcggtc gcggtccagg tcccggtctc 180  
 ggtccaggag tcctcccccga gtgtccaaga gggaaatccaa atccagggtcg cgatcgaaga 240  
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 cgtgttaatg taagaatgac tcctatcatt aggagtgtg ctccggagggt actcaccttt 420  
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 gccagtattg cagattttaa ctgatttggc tgatcctcca gggaccagtt tctgtgggcg 660  
 tgtattggar caggtttgtc tttaaatgtt aaagatgcac tatcctctta gagaaacaat 720  
 cagtccaact attgttgtac tgactgggac ttcatttctt aatggatgtg gcaaaagaat 780  
 tgcaataaga agcagtgaac atttggaacc ccaaaagaaa gttacaggta ttgactggg 840  
 tggggaaaag atagtgtgtc ttttaactctt aaattgtttg gtccattttt ttaaaaagga 900



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atacagccct tttttttttc tttttttttc tcccccttac ctttcttcac ctggttattt 1080
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aaaaaaaaa aaaaaaaaaa aaaaaaang aaaaaag 2377

```

&lt;210&gt; 228

&lt;211&gt; 463

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 228

```

aatacatgcc aaatggatca ttaaatgaac tcctacatag gaaaactgaa tatcctgatg 60
ttgcttgccc attgagattt cgcacctgtc atgaaattgc ctttggtgta aattacctgc 120
acaatatgac tcctccttta ctcatcatg acttgaagac tcagaatata ttattggaca 180
atgaatttca tgtaagatt gcagattttg gtttatcaa gtggcgcagt atgtccctct 240
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aaaactatga acctggacaa aaatcaaggg ccagtatcaa gcacgatata tatagctatg 360
cagttatcac atgggaagtg ktatccagaa aacagccttt tgaagatgtc accaatcctt 420
tgcagataat gtatagtgtg tcacaaggac attggactgg tat 463

```

&lt;210&gt; 229

&lt;211&gt; 1232

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 229

```

caggtgagca tctgaacaag gggcagtcgg ccagggtggg cttgcgggag tccccacctt 60
gacctctctc ccttccagct gccagagcc cagaccaagc atggacgccg tggatgccac 120
catggagaaa ctccgggcac agtgcctgtc ccgcggggcc tcgggcatcc agggcctggc 180
caggtttttc cgccaactag accgggacgg gagcagatcc ctggacgctg atgagttccg 240

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gccccccatg tcccaggccc ggagggctgt catcgagct gcatttgcca agctggaccg 420
cagtggggac ggcgtcgtga cggtagacga cctccgcggg gtgtacagtg gccgtgcca 480
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gacctgcca ggtgtggagc gaggggcaca ggggcatcct aacctcagaa actgaaataa 1140
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ataaaaatag caggtaacac gtcaaaaaaa aa 1232
```

<210> 230

<211> 1063

<212> DNA

<213> Homo sapiens

<400> 230

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gctataggac aacagaactc tcaccaaagg accagacaca gtgggcacca tgggacagtg 120
tcggtcagcc aacgcagagg atgctcagga attcagtgat gtggagaggg ccattgagac 180
cctcatcaag aactttcacc agtactccgt ggaggggtggg aaggagacgc tgaccccttc 240
tgagctacgg gacctggtca ccagcagct gccccatctc atgccgagca actgtggcct 300
ggaagagaaa attgccaacc tgggcagctg caatgactct aaactggagt tcaggagttt 360
ctgggagctg attggagaag cggccaagag tgtgaagctg gagaggcctg tccgggggca 420
ctgagaactc cctctggaat tcttgggggg tggtggggag agactgtggg cctggaaata 480
aaacttgtct cctctaccac caccctgtac cctagcctgc acctgtccwc atctctgcaa 540
agttcagctt ctttccccag gtctctgtgc actctgtctt ggatgctctg gggagctcat 600
gggtggagga gtctccacca gagggaggct caggggactg gttgggccag ggatgaatat 660
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atgtgattaa taaaaaaaaa tgaaaaaagt gaaaaaaaaa aaa 1063
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<210> 231

<211> 1063

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1056)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1061)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1063)

<223> n equals a,t,g, or c

<400> 231

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agctgcccc caacatcatg taccagccc gtgactacgt ggagccctgg gcttcgcgta 120
gagtccttag acggggcgaa aacgggaaaa ggggccttaa ctggggcacc tggctccttt 180
gggagctcgg agtttctgac tggcctgcgc aacacctcag aggcaaggkg aacgcgaggg 240
cctataatgc aagaaccaag gcgagtcacg ccctgtcttg gcaaaagagg agtaaagacc 300
cctcagctgc agcccggcag cgcattccta cccaggggtcc gccgccagag ctttcccgcg 360
cgtcgggata gttacactac tgtccgggac ttcctagccg tgccgcggac catctcaagt 420
gcttccgcc cactcatcat ggcgtgggca gtaagtcact tccgcccggg accggaartg 480
tggtgatact cgagtatggc ggcgtcaaag gtgaagcagg acatgcctcc gccggggggc 540
tatgggcccc tcgactacaa acggaacttg ccgcgtcgag gactgtcggg ctacagcatg 600
ctggccatag ggattggaac cctgatctac gggcactgga gcataatgaa gtggaaccgt 660
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caggcagaaa ccgaccggag gaccttgacg atgcttcggg agaacctgga ggaggaggcc 780
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gccagccacg gcttcatgtg gtacacgtag gccctgtgcc ctccggccac ctggatccct 960
gccccctccc actgggacgg aataaatgct ctgcagacct gaaaaaaaaa aaaaaaaaaa 1020
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaanaaaa nan 1063

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<210> 232

<211> 1474

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1337)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1359)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1377)

<223> n equals a,t,g, or c

&lt;400&gt; 232

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acaaattcgt cattggccac ttaaagggtg cctctgccaa ctggtggaat catcgccact 180
tccagcacca cgccaagcct aacatcttcc acaaggatcc cgatgtgaac atgctgcacg 240
tgtttgttct gggcgaatgg cagcccatcg agtacggcaa gaagaagctg aaataacctgc 300
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accttaactt ccagattgag caccacctct tccccaccat gccccggcac aacttacaca 720
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aggctctctt aagatgttca agggcccaag gccg 1474
```

&lt;210&gt; 233

&lt;211&gt; 1782

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (8)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (31)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (34)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (591)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1760)

<223> n equals a,t,g, or c

<400> 233

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gccttatgga gaagtatggt tctgctttct ttcctgrgga agcctagyt ctggggccacg 540
ggactgatcc tgctacatc ctctttccct ccattctcca tcgtgtctct ncccccgctc 600
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cgcagcgga ctaagctcat ctcccgccgg aggcctaggc agaaggaagc tggcctgagc 720
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agcttttctc gccgccttat caagcgcttt tccttcaaat ccaaacccaa ggccaatggt 840
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aaattcgggg gggggccctn acccattggc cctaaggggg gg 1782
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<210> 234

<211> 2208

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1314)

<223> n equals a,t,g, or c

<220>

<221> misc feature

&lt;222&gt; (2189)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2202)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 234

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acagggctcg gagccaagct cagagaacgc caatgacacc atcattttgc gcaacctgaa 60
cccacacagc accatggatt ccatcctggg ggccctggca ccctacgcgg tgctgtcctc 120
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ggcctccaat gaaggcagtc gcatcagtgc tgcctctgtg gccagcactg ccattgctgc 360
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&lt;210&gt; 235

&lt;211&gt; 2580

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (3)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2558)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 235

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<210> 236

<211> 3008

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3001)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3008)

<223> n equals a,t,g, or c

<400> 236

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<210> 237

<211> 877

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (834)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (854)

<223> n equals a,t,g, or c

<400> 237

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attatgttct taatttttat ctgtgaatta agccaccag ctctctagct ctttctctgt 420
tggccctcta cttcagatta ctttctatga agacaaaaat tttcaaggcc gtcgctatga 480
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<210> 238

<211> 3039

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (170)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (177)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3039)

<223> n equals a,t,g, or c

<400> 238

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agattgatga caacattccc cgccgcacca cccagcgtat cgtggcgccc cccggtggcc 480
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aaaaaaaaaa aaaaaaaaaa aaccccgggg gggggcccn 3039

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<210> 239

<211> 1992

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (12)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<220>

<221> misc feature  
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<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (87)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1989)  
<223> n equals a,t,g, or c

<400> 239  
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cgagaaggaa tgttgcatga gtcggatccc agtccattgt cagtggaggg tgaggggtgac 1500  
cccatctgct atttttgtgc tcatcctcat acaaccattt ggggatgtgc ctattagggc 1560  
tccgtaagaa ctacagatgc tgggaagccc agccctcag gtgccccac acacagcctt 1620  
cccttgagcg ctacatttct aggcacatgt gaggcattct tctggagcc ccgagccagc 1680  
cctgtccctc ccagtgagc catggcactc aggagataca ggctggacat ggggcagtcg 1740  
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gggggtgggc atgtgccagg acaggagggt cccggcgga agccagcccc ggactcatcg 1860  
tgacattgag atccactgg agggtagggg tggtaataaa cttctccaaa cgatgcgttg 1920  
tcatttttaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1980  
aaaaaaaaanc cc 1992

<210> 240

<211> 497  
<212> DNA  
<213> Homo sapiens  
  
<220>  
<221> misc feature  
<222> (387)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (476)  
<223> n equals a,t,g, or c

<400> 240  
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gcaggagacg caggcatggc cggtgagctg actcctgagg aggaggccca gtacaaaaag 180  
gctttctccg cggttgacac ggatggaaac ggcaccatca atgcccagga gctgggcgcg 240  
gcgctgaagg ccacgggcaa gaacctctcg gagggccagc taaggaaact catctccgag 300  
gttgacrgcg acggcgacgg cgaaatcagc ttccaggagt tcctgacggc ggcrargaag 360  
gccagggccg gectggagga cctgcangtc gccttcgcgc ccttcgacca ggatggcgac 420  
ggccacatca ccgtggacga gctcaggcgg gccatkgcgg ggytggggma ccttcnagag 480  
attgaccatt ttggagc 497

<210> 241  
<211> 316  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (133)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (311)  
<223> n equals a,t,g, or c

<400> 241  
atcgggcagc ccacacaagc ggcaaaccag aatggcactg gaaatggagc cgcagaggta 60  
cgcgatgagg atcattccag gcgcgattgc actcataagc tgttccgttt tgaaaattcg 120  
tgttcaacga tagnaatctgt ggataatacg cacatttcgc cggaagtggc atccggttag 180  
ccaraaagca ggcaggacgt gatggatatt gtatttatag agcaactttc ggtaatcacc 240  
actattggtg tttacgactg grrrcaacya tcgaacagaa gttagtgttc gatatcgaaa 300  
tggcgtgggg ntaacc 316

<210> 242  
<211> 829  
<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (47)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (793)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (809)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (814)

<223> n equals a,t,g, or c

<400> 242

ngnntttctt cggngggggg gaataagggg acacagctca cactatntta aggtacgcct 60  
gcagggtaccg gtccggaatt cccgggtcga cccacgcgtc cggaaagaaa agaagaaaag 120  
aaaaaaagat ctttcaaagg gcagatgggt agaaggcata acctctgagg gttaccatta 180  
ctattatgat cttatctcag gagcatctca gtgggagaaa cctgaaggat ttcaaggaga 240  
cttaaaaaag gtaattgaag catattaata gtgtttttgt tttattcttt acagtgatcc 300  
gtttcttagg tttttgtaga gttttgctaa gcaactttat ttacaaatac tccactccct 360  
ccaccccaa actgtgtcct tttttttccc ataatgcttt tgtagaagg ctggatggag 420  
atgaaaatagt gatatctggc tgggtgcagt ggctcatgcc tgtaatccca gcactttggg 480

```

aggctgaggc atgtggatca caaggtcagg agttaaaagac cagcctggcc aagatggtga 540
aacccctatct ctcctaaaaa ctacaaaaaa attagccagg cgcagtcgca gttgcctgta 600
atcccagcta ctcaggaggc tgagtcaggg gaatcactgg gacctggggc ggcagagggtt 660
aacagtgagc cgagattgca ccaccgcact ccagcctgga taacaaagta agactccgtc 720
tcaaaaaaaaa aaaaaaaaaa agggcgggccg ctctagagga tccctcgagg ggcccaagct 780
tacgcgtgca tknaacgtca taggggctng ggcntttacc tttcccgtc 829

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<210> 243

<211> 838

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (32)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (51)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (822)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (832)

<223> n equals a,t,g, or c

<400> 243

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ttggatgttg gtgggttttt gaatttttgg gtggttaatc cagttttatt ttgaaaagac 180
gtacttgaat agttacagca tatgtttgaa caggaagtag gaacatgcat acacgaagaa 240
atgctaacgg aaggatttgt tatgtttagg atcttccctt ggaaactaaa aatagaatat 300
taatgacatt actgtttgta gaatgacata tgcagatttt ctcataagca gtcattgtgt 360
ttgccagtaa tgtttgagag acatgtaagt tgaaagtgtt gctaaattat aaagctcctt 420
taattcgttg gttttgattc tcttattctc ttgtcttttc taaatgttaa caaaatatat 480
cttaacagat tacatgaaat ttaggaatta tttaaaagt accattagct ctaaaattaa 540
gattcggatg ctttatttat agtaactgaa gctaataatg ttttatgttt tgattttttg 600
aaatttaatt gtagaagtca ctgccttctg agttttcaaa tagataacca cctttaatat 660
tactactgctt ataatactaa tgtttacaga tatgtttctg tttataacca tataatacat 720
tggtcttgct atattagttt tttttgcaag tagttatgta aaagagatag ataataaaat 780
attaaataac aaaaaaaaaa raaaargctc gagtaarggc anagtggcat gngccata 838

```

<210> 244

<211> 2853

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2665)

<223> n equals a,t,g, or c

<400> 244

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gccccgtgtc catcttcgtc tatgatgtga agcctggcgc ggaagagcag acccaggtgg 120
ccaaagctgc ctccaagcgc ttcaaaactc tacggcacc caacatcctg gcttacatcg 180
atggactgga gacagaaaaa tgccctccacg tcgtgacaga ggctgtgacc ccgttgggaa 240
tataacctcaa ggcgagagtg gaggtgtgtg gcctgaagga gctggagatc tcctgggggc 300
tacaccagat cgtgaaagcc ctcagcttcc tgggtcaacga ctgcagcctc atccacaaca 360
atgtctgcat ggccgccgtg ttcgtggacc gagctggcga gtggaagctt gggggcctgg 420
actacatgta ttcggccccag ggcaacggtg ggggamctcc ccgcaaggga tccccgagct 480
tgagcagtat gaccccccg agttggctga cagcagtggc agagtggta gagagaagtg 540
gtcagcagac atgtggcgct tgggctgcct catttggaa gtcttcaatg ggccccctacc 600
tcgggcagca gccctacgca accctgggaa gatccccaaa acgctggtgc cccattamtg 660
taagctggtg ggagcaaac ccaaggtgcg tcccaaccca gcccgcttcc tgcagaactg 720
ccgggcacct ggtggcttca tgagcaaccg cttttagaa accaacctct tcctggagga 780
gattcagatc aaagagccag ccgagaagca aaaattcttc caggagctga gcaagagcct 840
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cacgtgtaca taatcagagc cacaataaat tctatttcac accccttgtg ccgggctcag 2520
tctagcccct gggaggcggc tggggtctgg cgccgccctc gcagcccgcg cccacgtcag 2580
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acgtgaacat caatttgctt cgaaagccaa gggtaaagag gcacgatytg atttatcagt 2640
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cgctaaccgg ggaggggggc cggtaggggc gcctcgggty tcaaggcgcc gggaggggtct 2760
wgcggccctg aaggccctk ggtccgagcc acaagtcggg gcagaagtga ggccgagctc 2820
gcggaaatcc ctcaagtgat caccgaggtc tgg                                     2853

```

<210> 245

<211> 1197

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (218)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1193)

<223> n equals a,t,g, or c

<400> 245

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tcccagggca tcatctaccg ggacctcaag cccgagaaca tcatgctcag cagccagggc 120
cacatcaaac tgaccgactt trgactctgc aaggagtcta tccatgaggg cgccgtcact 180
cacaccttct gcggcaccat tgagtacatg gcccctgnag attctggtgc gcagtggcca 240
caaccgggct gtggactggg ggagcctggg ggccctgatg tacgacatgc tctactggatc 300
gccgcctttt accgcagaga accggaagaa aaccatggat aagatcatca ggggcaagct 360
ggcactgccc ccctacctca ccccagatgc ccgggacctt gtcaaaaagt ttctgaaacg 420
gaatcccagc cagcggattg ggggtggccc aggggatgct gctgatgtgc agagacatcc 480
ctttttcccg cacatgaatt gggacgacct tctggcctgg cgtgtggacc cccctttcag 540
gccctgtctg cagtcagagg aggacgtgag ccagtttgat acccgcttca cagggcagac 600
gccggtggac agtcctgatg acacagccct cagcgagagt gccaaaccagg ccttcctggg 660
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caagctgcgc tcaccagggc gcctcaacag tagcccccg gccccgtca gccccctcaa 780
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ggccagttcc agagacctgg ggggtgtgtc ggggggtggg tgtgagtgcg tatgaaagt 1080
tgtgtctgct ggggcagctg tgcccctgaa tcatgggcac ggaggccgcc cgccrmgccc 1140
cgcgctcaac tgctcccgtg gaagattaaa gggctgaatc atgaaaaaaa aanaaaa 1197

```

<210> 246

<211> 848

<212> DNA

<213> Homo sapiens

<400> 246

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ggcacgagga gagagacctg gcggccgggc agcatggcgg ggctggagct cttgtcggac 60
cagggctacc ggggtggacgg gcggcgcgcc ggggagctgc gcaagatcca ggcgcggatg 120

```

```

ggcgtgttcg cgcaggctga cggctcggcc tacattgagc agggcaacac caaggcactg 180
gctgtgtgtc acggcccgcg cgagatccgg ggctcccggg ctcgagccct gccggacagg 240
gccctagtga actgtcaata tagttcagcg accttcagca caggtgagcg caagcracgg 300
ccacatgggg accgtaagtc ctgtgagatg ggcttcgagc tccgccagac ttctgaagca 360
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gcagatggtg ggacctatgc agcttgtgtg aatgcagcca cgctggcagt gctggatgcc 480
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ctggagcggg tgttgaggc tgctgccag gctgccgag atgtgcacac cctcttagat 720
cgagtgttcc ggcagcatgt gcgtgaggcc tctatcttgc tgggggactg accaccagc 780
caccatgtc cagaataaaa ccctcctctg cccamaaaaa aaaaaaaaaa aaaaaaaaaa 840
aaaaaaaaa 848

```

<210> 247

<211> 1336

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (26)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1336)

<223> n equals a,t,g, or c

<400> 247

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aagagaggtg gagaagagcg agtacttgag aaagaagagg aagaagatga tgatgaagat 120
gaagatgaag aagatgatgt gtcagaggcg tctgaagtgc ccgagagtga ccgtcctgca 180
ggtgcccgagc accaccagct taacggcgag cggggacctc agagtgccaa ggagagggtc 240
aaggagtgga cccctgctg accgcaccag ggccaggatg aagggcgggg gccagccccg 300
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gatcccgtcg agtgaccgt gatggatgtc gtcgaatatt ttactgaggc tggattcccg 540
gagcagcgca cagttttcca agagcaggaa attgatggca aatctttgct gctcatgcag 600
cgcacagatg tgctcaccgg cctgtccatc cgctcgggc cagccctgaa aatctacgag 660
caccacatca aggtgcttca gcaaggccac tttgaggatg atgacccga tggcttctta 720
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```

ktttttttaa taaaatttta aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1320  
aaaaaaaaaa aaaaan 1336

<210> 248

<211> 1076

<212> DNA

<213> Homo sapiens

<400> 248

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tgtcgccatc gacatgatgg actctcggac cagccagcag ctgcagctca ttgacgagca 180  
ggattcctac atccagagtc gggcagacac catgcagaac attgagtcga caattgttga 240  
gttgggtccc atctttcagc agttggcaca catggttaag gaacaggagg aaaccattca 300  
gaggatcgac gagaacgtgc taggagccca gctggacgtt gaggccgccc attcagagat 360  
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cctcattgtc ttcttcatca tctttgtggt cttccttgct tgaacctctt ctactctgag 480  
gcactctgtt ggggtttggg accctcctgg gaaggcaagt ggccagtgtt gccactgagc 540  
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cccctgatcc cccaccctt gcctctggcc accctgtcct cccccacca ccctcaggcc 660  
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ggccagctgg gggccagtgg gggaggttgt ttccactagg agatttttat aaacctcttc 780  
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ctttcaccat gtgaggcagg gagccctgag cccttcagct gcctgcacaa cccctgacat 960  
tggtgtctgg tgactcaatc tgccaaatgt gctgcagctc gttttctccc aattacagca 1020  
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<210> 249

<211> 2425

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (52)

<223> n equals a,t,g, or c

<400> 249

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tgctcccca atgtccaggg ccctagctgt gaccgmtgtg cccccaactt ctggaacctc 120  
accagtggcc atggttgcca gccttggtcc tgccacccaa gccgggccag aggccmwcct 180  
gcaacgagtt cacagggcag tgccactgcs gtgccggctt tggagggcgg acttgttctg 240  
agtgccaaaga gctccactgg ggagacctg ggttgacgtg ccatgcctgt rattgtract 300  
ctcgtggaat agatacacct cagtgtcacc gcttcacagg tctactgcagc tgccgcccag 360  
ggtgtctggt gtgcgtgtg accagtgtgc ccgtggcttc tcaggaatct ttctgtcctg 420  
ccatccctgc catgcattgt tcggggattg ggaccgagtg gtgcaggact tggcagcccg 480  
tacacagcgc ctagagcagc gggcgcagga gttgcaacag acgggtgtgc tgggtgcctt 540  
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ccgcaacacc tcagccgcct cactgcaca gcttgtggag gccacagagg agctgcggcg 660  
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agatgagaac ttcaatgcca accatgcact aagtggctctg gagcgagata ggcttgcaact 780
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```

<210> 250

<211> 1408

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (252)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1387)

<223> n equals a,t,g, or c

<400> 250

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cgagcccagag ctggccgtgt cagcgccggg ccgcgtgcaa cctcatcggg gaacacacgg 180
actacaacca gggcctggtg ctgcctatgg ctctggagct catgacgggt ctgggtggga 240
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```

```
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aaaaanaaaa aagaaaaaaa aaaaaaaaaa 1408
```

<210> 251

<211> 494

<212> DNA

<213> Homo sapiens

<400> 251

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gccagccaag gacagggttg actgcggcta ccccatgtc accccaagg agtgcaacaa 180
ccggggctgc tgctttgact ccaggatccc tggagtgcct tgggttttca agcccctgca 240
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cggagcacc ttgcccggct gtgattgtg ccaggcactg ttcattctag cttttctgtc 360
cctttgtctc cggcaagcgc ttctgtgtaa agttcatatc tggagcctga tgtcttaacg 420
aataaaggct ccatgctcca ccgaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 480
aaaaaaaaaa aagg 494
```

<210> 252

<211> 2491

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (16)

<223> n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2457)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 252

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gactcgctcg acccgctcct cactcacgcc atgcagctgc tgacggcaga aattgagaag 240
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aagaacatga aactgaaaga gcgagtgtg atacctgtca agcagtatcc caagttcaat 360
tttgtgggga agattcttg accacaagg aatacaatca aaagactgca ggaagagact 420
ggtgcaaaga tctctgtatt gggaaagggc tcaatgagag acaaagcaa ggaggaagag 480
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tctagaggat ccaagcttac gaccccgga t 2491
```

&lt;210&gt; 253

&lt;211&gt; 1125

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 253

```
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cgagatattt ttgggagtta ttccctaaat aactgcatta tatgctcctt tcatgacgaa 120
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cgacgggcta ggaactgtcc tgcttgggtg ttagcgtttc ccgycgggcc agtaaggctg 240
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cataaacctg tgtaccatgc actgagtgc tgtggggatc atgttggtat aatgaacaca 480
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taccaggtg gatttagaca agtaacagct gctcagcttc acctgaggga tccagtggca 600
attgtaaaac tagctattta tggcatgtg ccaaaaaacc ttcacagaag aacaatgatg 660
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agaaccattt ttatgtaatc tgatttgaat gttatagttg ataataataa aatcacttac 1080
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&lt;210&gt; 254

&lt;211&gt; 1409

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 254

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cactgcactt tcaggaatgt ttgcttatgg tcctgattag aaagaaacag ttgtctatgc 180
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gaagattctt ttttccaaac agtaggtttc atccaagacc atttgaagaa ctgcaaactc 360
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cacattcaga tgtcttggtt gtgacttatt accagtgtgg cagagaaccc aagttacatt 480
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tgaaaattga acttttaagt taggaagaag ttagagtcag ggaacttgta taccactatc 1260
```

```
tatgcagcat tggtatagtc tgattatttc tgtgttttga atatgatttt cctaattgctc 1320
taaataaaat tttgttaaaa attaatTTTT tatttaaatga tgtgcaaata ttgaatatTT 1380
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<210> 255

<211> 490

<212> DNA

<213> Homo sapiens

<400> 255

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tcgccgcccc ggccgccttg gttccacttc cagcaacagc tcctgcagca gtaccgagt 180
ccccggggaa gccattcccc accccccagg tctccccaag gctgaccgg gtcattggtg 240
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agagcactcg gaacctcccc aggcctccag cagcatgamc gcctgtggcc tggctcggga 360
agccccgagg aagcagcccc gcggtcagtc cagcamagcc agcgtgggg ccccgctctg 420
aactgagcgg ttaacaacaa gccccaaagg tkcggaagcg ctagtcaac agagccctcc 480
gggccctttg                                     490
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<210> 256

<211> 1233

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (45)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (602)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (931)

<223> n equals a,t,g, or c

<400> 256

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caactgcctg tgcggccast tcagcatccg gtgctggtat gacaaggatg ggcgattgct 240
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ttcttacctc ttcgacttag acaacaagga tggagagggt tactgcatag atgcccgtta 540
ctatggcaac atcagccgct tcatcaacca cctgtgtgac cccaacatca ttcccgtccg 600
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```

gntcttcatg ctgcaccaag acctgcgatt tccacgcac gccttcttca gttcccgaga 660
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```

<210> 257

<211> 2404

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2372)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2385)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2395)

<223> n equals a,t,g, or c

<400> 257

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gcggaccgcg cggctggagg tgtgaggatc cgaaccacag ggtggggggg ggaggcggct 120
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tgggcctctg ctgcgtcctg ctgaccttcg ggtcggtcag agctgacgat gaagttgatg 240
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<210> 258

<211> 2092

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (27)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (31)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (60)

<223> n equals a,t,g, or c

<220>

<221> misc feature

&lt;222&gt; (2069)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2071)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 258

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ccggaattcc cgggtcgacc cacgcgtccg ctgccgctcc ctttgccgcc gccttagccc 120
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gtccccagc cgtctcgcc gccgccatgg cggaccctaa atacgccgac cttcccgga 240
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aactaaataa aaaaatgagta cagagccaga gccagagttt caaaatatc tcatctgtta 1980
aatgaagagt gtctcccata gaaaagcagt ggaggcccca cagggcaagt acaaacaga 2040
atataaactc aaaaaaaaaa aaaaaaaanc ncaagggggg gcccggtccc ca 2092
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&lt;210&gt; 259

&lt;211&gt; 387

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

<221> misc feature

<222> (377)

<223> n equals a,t,g, or c

<400> 259

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tctgcagctg cctttcagca caggtggctg cccccaggg ccaccgcttc tttcttgatc 120
ctctttcctt aacagtgact tgggcttgag tctggcaagg aaccttgctt ttagcttcac 180
caccaaggag agagaccaa agcctctgat ttttaatttc cataaaatgt tagaagtata 240
tatatacata tatatatattc tttaaatttt tgagtctttg atatgtctaa aatcattcct 300
ctgcctgaag cctkagttag cacatgarga actgtgttca ttaagtgtta ttaatgttga 360
actgaaaaaa aaaaacnagg ggggccg 387

```

<210> 260

<211> 3712

<212> DNA

<213> Homo sapiens

<400> 260

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tatccccgac gaccggatcc tgaggaggca gctgcggtgg cagctgctga gttctcgggtg 60
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tgaagattct tcgttgtaa gccgcaaaag tggagagtgc gattgcagaa gggggtgctt 180
ctcgtttcag tgcttcttcg ggcggaggag gaagtagggg tgcacctcag cactatccca 240
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aagaacgaca tgatgcaatc ttcaggaaaag taagaggcat actaaataag cttactcctg 420
aaaagtttga caagctatgc cttgagctcc tcaatgtggg tgtagagtct aaactcatcc 480
ttaaaggggt catactgctg attgtggaca aagccctaga agagccaaag tatagctcac 540
tgtatgctca gctatgtctg cgattggcag aagatgcacc aaactttgat ggcccagcag 600
cagaggggtca accaggacag aagcaaagca ccacattcag acgcctccta atttccaaat 660
tacaagatga atttgaaaac cgaactagaa atggtgatgt ctatgataag cgtgaaaatc 720
ccctcctccc cgaggaggag gaacagagag ccattgctaa gatcaaatg ttgggaaaca 780
tcaaattcat tggagagctt ggcaagcttg atcttattca cgaatctatc cttcataagt 840
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tgagggctcc taaacacttt cttcctgaga tgtaagcaa agtaatcatc ctgtcactag 1920

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aactggaggt tgacatccct ttggtgaaat cctatttagc acagtttgca gctcgtgcc 2100  
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<210> 261

<211> 897

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (22)

<223> n equals a,t,g, or c

<400> 261

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ccgactacct ctccccggag gagatacaga ggcagctgca ggacatcgag aggcggctgg 180  
acgccctgga gctccgcggc gtggagctgg agaagcgact gcgggcggcc gagggagatg 240  
acgctgagga tagcctcatg gtggactggg tctggctcat tcacgagaag cagcttctgc 300  
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tgacatcga gggcgagctg cgccggctca tggccaagcc cgaggctctg aagtcactgc 420  
aggagcgcg gcgggagcag gagctgctgg agcartacgt gagcaccgtg aacgaccgca 480  
rtgacatcgt ggactcgctk gacgaggacc ggctccsgga acaagaggag gatcagatgc 540

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tgcgggacat gattgagaag ctgggcctcc agaggaagaa gtccaagtcc cgcttgtcca 600
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ctcggcccgg acctggcatc cggacttgga ctcggggcca tgggcttggc ccggaccggg 720
aaccgggact tgtactcggg gccgtgggct cggcccggac ccggcattcg gacttggaact 780
cgggaagggc ctctgtccc tacaaggggc atgtggacag cagggacctg cgctaccgtc 840
tgtggtctca ataaagaaac cgaccacatg gaaaaaaaa aaamaaaaaa aaaaaaa 897

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<210> 262

<211> 1905

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1266)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1791)

<223> n equals a,t,g, or c

<400> 262

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cacttgtaca gcgccgtca acatcgcggt catcaagtac tggggcaagc gcgatgaaga 180
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caccacaaca gccgtcatca gcaaggactt caccgaggac cggatttggc tgaatggccg 300
ggaggaggat gtggggcagc cgmggctgca ggctgcctg cgggagatcc gctgcctggc 360
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gcacgtggca tcggtgaaca acttccccac ggctgcgggc ctggcctcct cagcggcggg 480
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19  
gggagcagcc tccttggggc tcaggaaacc accaagtgcc tcggatggtg gctgcccacg 1740  
gcgcttctgc tgagaccctg cccccggccc aggtgtctcg gaggggtggc ncccacggcc 1800  
tggtgtgtgc tggaatggtg gcaggagtgg gcaccagtgc ggccccggtg gccatgggga 1860  
ataaaccagc attgctgccca aaaaaaaaaa aaaaaaaaaa aaaaa 1905

<210> 263

<211> 1424

<212> DNA

<213> Homo sapiens

<400> 263

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gtgactgttt gatttttaaa agtgtgactg tcagttgtat ctgttgcttt tctcaatgat 180  
tcagggatac aaatgggctt ctctcattca ttaaaagaaa acgcgacatc tttctaagat 240  
tctctgtggg aaaatgactg tcaataaaat gcgggtttct gggccattcg tcttactttc 300  
atTTTTtTgat tacaaatttc tcttgacgca cacaattatg tctgctaate ctcttcttcc 360  
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gtaaaagtcc caggttctaa attaaactaaa tgtgtacaga aatgaacgtg taagtaatgt 480  
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<210> 264

<211> 1287

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (111)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (889)

<223> n equals a,t,g, or c

204

<220>  
 <221> misc feature  
 <222> (1196)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (1229)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (1284)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (1287)  
 <223> n equals a,t,g, or c

<400> 264  
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 ccgtccccgcg gccccagcc gcccccaacc ctgccccacg ggccccggcg catgagtgag 180  
 ctggagcaac tgagacagga ggccgagcag ctccggaacc agatccggga tgcccgaaaa 240  
 gcatgtgggg actcaacact gaccagatc acagctgggc tggacccagt ggggagaatc 300  
 cagatgagga cccggaggac cctccgtggg cacctggcaa agatctatgc catgcactgg 360  
 gggaccgact caaggctgct ggtcagcgcc tcccaggatg ggaagctcat catctgggac 420  
 agctacacca ccaacaaggt ccacgccatc ccgctgcgct cctcctgggt aatgacctgt 480  
 gcctacgcgc cctcagggaa ctttgtggcc tgtgggggggt tggacaacat ctgctccatc 540  
 tacagcctca agaccgcga ggcaacgtca gggtcagccg ggagctgcct ggccacactg 600  
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 gtggggatgt gatgtccctg tccttgccc ccgatggccg cacgtttgtg tcaggcgcct 780  
 gtgatgcctc tatcaagctg tgggacgtgc gggattccat gtgccgacag accttcacgc 840  
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 accccactgg gcccaagcca ggaaggggnc ctgccttccc cggggccaag gggccttggg 1260  
 tccctgccct tccaaccaag tttnngtn 1287

<210> 265  
 <211> 991  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature



<222> (421)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (966)

<223> n equals a,t,g, or c

<400> 265

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ccctggagct cttccgaacc aaggatgaatg cgctcactta tggggaggtg ctgcggctgc 180
ggcagactga acggctgcac caggaggga cactggctcc ccctatactg gagctgcggg 240
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naccctggag agtctgccc agcaactccc tgtggccgac atgagggcac tcctgacagg 480
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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa a 991
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<210> 266

<211> 2320

<212> DNA

<213> Homo sapiens

<400> 266

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```

&lt;210&gt; 267

&lt;211&gt; 423

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 267

```
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tkaccatgac atgacagctg ggcggaggtc aatcgagga tttgttgcca gcatcaatga 240
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gcccgaccgg atcatcgtgt accgsgtggc gtaggagacg gccagytgaa aacactgggt 420
act 423
```

&lt;210&gt; 268

&lt;211&gt; 1846

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1776)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1816)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1832)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 268

```

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aaagctgac ttttcnggat ataaaatgtt gnatgatgaa aaaaaa 1846

```

&lt;210&gt; 269

&lt;211&gt; 601

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (536)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

<222> (556)

<223> n equals a,t,g, or c

<400> 269

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cccactgctg tctcctctgg actccagccc ctgaattaaa gaaactggag ccctangtcc 540
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g 601
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<210> 270

<211> 880

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (876)

<223> n equals a,t,g, or c

<400> 270

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aatctattct gtatccacca ggtggcagca tcttgtcata cgtgtcagga cttaggactg 480
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ttgaagacct actttgtcct ctacataggg tagcttctgt cagggaatct tggttcttcc 660
caagaaacac tgattttctt tcaggagagac ttcatgtgtt catttatttc caccacagca 720
gattttaaga aattataata tgtaatatgt gatatttata aagagtatat ctaacgtgaa 780
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ttaaatacca aaaaaaaaaa aaaaaaaaaa aaaaanaaaa 880
```

<210> 271

<211> 2484

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (194)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (623)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2396)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2484)

<223> n equals a,t,g, or c

<400> 271

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210

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tgtaatttc cccgtttttt gggn                                     2484

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&lt;210&gt; 272

&lt;211&gt; 751

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 272

```

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caagggtcaag aaatcccaca gtttgatgta ttaaagaaat gacttatttc tactcaaaat 660
aaatggcatt gaagtctttc tttaaccctt tatgagttaa tttaataata atgatctgag 720
acaaaaaaaa aaaaaaaaaa aaaaaaaaaa a                                     751

```

&lt;210&gt; 273

&lt;211&gt; 3309

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (3279)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 273

```

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caagtacact ccacacatgc ataaaggaaa tcaaattgta tttttaagaa aatggaaaat 3240
aaaaacttta taaacaccaa aaaaaaaaaa aaaaaccng gggggggggc ggtaacccat 3300
ttcgcctaa 3309

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&lt;210&gt; 274

&lt;211&gt; 843

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (780)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (833)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 274

```

cgcggacggg tgagaggccg cggcggcagg tccacctggg cttgcgaagg cacagattcc 60
ccgtccacag ctcacgacca gatgcaccag caggagtcca catcgaggac gtcctccggg 120
cactcccacg accagtgacc aggagttaaa ctttgggatg tgcccgtgat gttggaccac 180
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tgt 843

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&lt;210&gt; 275

&lt;211&gt; 2028

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 275

```

tcggcacgag gtttttgatt tatggataat ttcttaagag tacacacttt agatacacia 60
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taacatcata tatcagaatt ttattgtata tgatgaacaa aacttaaaat tttttaaatt 240
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```



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acaggatttt aaacatggtg tggatttcta aagccttttt tttaaaaaaa gagatctttt 1920
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<210> 276

<211> 1455

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (759)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1408)

<223> n equals a,t,g, or c

<400> 276

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tggcccarcc cgtgccgcat gactggagga agatggcaga agctgttcaa aatcacgtga 420
aatccttgaa ctggggccac cgtgtccagc ttcaggacar aaaagtyaag tactttaaca 480
tcaaagccag ctttgttgac gagcacacgg tttgcggcgt tgcaaagggt ggaaagagat 540
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acagcaccac cggcaaggag gacacgggca cctttgacac cgtcctgtgg gccataggtc 960
gagtccacga caccagaagt ctgaatttgg agaaggctgg ggtagatact agccccgaca 1020

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ctcagaagat cctggtggac tcccgggaag ccacctctgt gccccacatc tacgccattg 1080
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ctggggacaa gtgtg 1455

```

<210> 277

<211> 1923

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1814)

<223> n equals a,t,g, or c

<400> 277

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tcaatttgcc acgggacaaag tttctaaagg aacagataaa actggatgaa ggctgggtac 300
ctttggagat aatgataaaa ttcaacaggt tgaaccgtct aacaacagac tttaatgtaa 360
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taaaaaacag atctgtttat attaaaggct tcccaactga tgcaactctt gatgacataa 540
aagaatggtt agaagataaa ggtcaagtac taaatattca gatgagaaga acattgcata 600
aagcatttaa gggatcaatt tttgttgtgt ttgatagcat tgaatctgct aagaaatttg 660
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actttgccaa aaaaaatgaa gaaagaaaac aaaaataaagt ggaagctaaa ttaagagcta 780
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aaaagagcaa aaacagtttt tgattttttt tttctttttg tacccaaagc atttaggaaa 1740
gaactagaat attagctatt gacgatgggc ctttcccaca ggccatttat ggtgtctcct 1800
aggctgggct ttgnatattt acacaggaaa gttgggtaac actagaaata attacttggg 1860

```

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gga 1923

<210> 278

<211> 1380

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1293)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1297)

<223> n equals a,t,g, or c

<400> 278

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tttcccttca ttccagatc ctttatttca gagcagccca tttccctctg gattcattga 180  
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atgaggcctt catgaacggg taccttctcc atacactagg gaagcatttg tcagactctg 300  
cagactgggt tctagagagg cagagtcttt aagagtattc atttcttctg gaagggtggag 360  
ctttacccaa agtgggaagt agccttgctc aaagatgtgt ttgtgtgtag gtggtaaaaa 420  
taaataaata aataaataat aaaaaaagaa acatgtattg gaggtaattt gacactgctg 480  
ctggcagtag ttctctattc accattttta agcccatcca gggtctctct tcctgaaaag 540  
aactgattgc tgtgtttaca tgaaatgaca ttggagtcag atggctctgt ttaaagattt 600  
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aatcaaacgg tgggtttctt agtagctaaa gaagccatgt acttctagtg tgtttctcag 720  
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aattaaattt taaggagatt cttatctaata aactttgtgt gtgcttttgg atacaggctg 1260  
aggctttact cctacactgg tgctgttaat ttncacnttt caggggatgt ctgctcggct 1320  
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<210> 279

<211> 1018

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (818)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1017)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1018)

<223> n equals a,t,g, or c

<400> 279

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ttcgcgctcg gcttgtcggg cgggagctcg tctcgatgct agcccgcgag ctacccgccg 180
ccgtcgcccc tgccgggcca gctagcttag cgcgctggac gctgggcttc tgcgacgagc 240
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ctccggccag cagccctacc cggggctcaa cacacaggct gtggctcttg acatccggat 960
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```

<210> 280

<211> 1192

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1105)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1130)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1154)

<223> n equals a,t,g, or c

&lt;400&gt; 280

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cggctctggt tctgccactc attggttatg aggaggccca gagcaggtaa gtccaccttc 840
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ttatTTTTaa atttttaata ctttnggtac tccaattgtc cagtgtccn tgggtgttgt 1140
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```

&lt;210&gt; 281

&lt;211&gt; 1755

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 281

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agtcgtctat aaaaactcat ctctgcgcgt ctcttcgcca cattcgcttc ctgctttcgg 180
tgtgtctgtt gtgtcttgtt gcgggcaccg cagtcgccgt gaagatggcg tctaccagcc 240
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ataatgcaaa tcattgcagc taataaagct gatagacttt atttccatta cttatatata 1560
catagttttt tattttaata aatttatgga aagagcaaaa gcttttgaga accattgtta 1620
acatcaacat catagtttcc agtttgaaag gatgtgtatg tgagatttat tatgtatatt 1680
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<210> 282

<211> 1093

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (90)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (970)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1081)

<223> n equals a,t,g, or c

<400> 282

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<210> 283

<211> 1556

<212> DNA  
<213> Homo sapiens  
  
<220>  
<221> misc feature  
<222> (1324)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1339)  
<223> n equals a,t,g, or c

<400> 283  
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<210> 284  
<211> 1029  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (828)  
<223> n equals a,t,g, or c

220

<220>  
 <221> misc feature  
 <222> (958)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (972)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (976)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (987)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (1007)  
 <223> n equals a,t,g, or c

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 cgactactcc gacctggcct tgctcctgca gatccccacg cagaatgcac aggcccgga 180  
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 agcgggagcc ctgggctctc cggggctccc tctccgcaag ctgcagccag aaggccagac 420  
 ttctgggagt tcccgggcag acggcgtttc ggtccggacc tattcctgct agtgcaggcc 480  
 tccaggtgac ctcactcgga cggaagaatc ttcccaggc tgggctgttc cctctcctgc 540  
 ccggactgtg gcctcgccgg ggagagcggg cgggggagct cgcgccgagg actggaccat 600  
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 cacatgaact ggactgagag ggggaagaag cggggaggaa gaaatcccgc cccaaacgtc 720  
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 ccgtgtttt 1029

<210> 285  
 <211> 1583  
 <212> DNA  
 <213> Homo sapiens

<220>



221

<221> misc feature  
 <222> (1411)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (1531)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (1557)  
 <223> n equals a,t,g, or c

<400> 285  
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 gccgagctga ccaacaggac acacagattc ctggagaaaag ccaaggcctt gaagatcagt 180  
 ggtgtgatcg ggccttaccg tgagactgtg gactcggtgg agaggaaagt cagcgagata 240  
 aaagacatcc tggcgcagag ccccgagca gagccactga aaaacattgg gaatctcttt 300  
 gaggaagcag agaaactgat taaagatgtt acagaaatga tggctcaagt agaagtgaag 360  
 ttatctgaca caacttccca aagcaacagc acagccaaag aactggattc tctacagaca 420  
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 aactcagata ttcggggtgc cttggatagc attaccaagt atttccagat gtctcttgag 540  
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 gggggaggcc gaattttttg gaa 1583

<210> 286  
 <211> 1177  
 <212> DNA  
 <213> Homo sapiens

<400> 286  
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tagttacca atataatatg gtagaaaagg ctaaatacata cttaatgagc aaattgaagt 180
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tgaacatttg cctcaagatg ttaactataa acacactgca tacaattttc ttctgaataa 300
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aattacgaca ttttaagata tttcatagac aaaccaaaca aaaatatatg tttttacttt 660
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caagcatcaa gtggtgtttg ttagaaataa actagagatt tttaaaaaaa aaaaaaaaaa 1140
aaaaaaaaa aaaaaaaaaa acccccgggg gggggccc 1177
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<210> 287

<211> 506

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (394)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (470)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (481)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (494)

<223> n equals a,t,g, or c

<400> 287

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taggtgttcc ctagtgtttc ttaatttctt tttagaaagt gtatttttat tagtattttt 180
ccggtgaaca gaagatttgt ttggatttaa acatttacta agacagtacc tattaggaaa 240
accaaataat gcaaatggtc aattcgattt taatttctca aaagatactc tggtatccag 300
aagattaaaa tgccacatt gagtgcttaa aaaaaaaaaa acmactgtga tratktgagc 360
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223

agaatggcca gtaagttaag ccttttttga tccnggtaat ccagggtatc catttaccat 420  
ggaaagggga ttccccaac tactggccca gagggaagtt tggttttttn aaatttaagg 480  
nggggaaatt ttanccctat aaaatt 506

&lt;210&gt; 288

&lt;211&gt; 948

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (3)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (926)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 288

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tcggggaaat ccaccgtggg cgccctgctg gcatctgagc tgggatggaa attctatgat 120  
gctgatgatt atcaccgga ggaatacga aggaagatgg gaaaaggcat accgctcaat 180  
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gcccatacta gattctaaat gtttctaaag gcaaacccca atgtgtcaag acagacttgt 720  
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tgtaatcaat gctggaaatc gttacattgt ttagaacatt cttgctcatg cctgtatttg 900  
cacaaataaa tgaaacttcg ctgtcnaaaa aaaaaaaaaa aaaaaaaaaa 948

&lt;210&gt; 289

&lt;211&gt; 1034

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (376)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 289

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ctgcgcatga gggataagag ggcagacttt gtggttgggt cccttggggg ccacattgtg 120  
gccattgggg gccttggaag ccagccatgt cctttgggct ctgtggagag ctttagcctt 180

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gcacggcggc gctgggaggc attgcctgcc atgcccactg cccgctgctc ctgctctagt 240
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gtggaggcac tgtgtctgcg tgatggggtc tgaaggcttg gtgggagctg tccactggag 360
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ccttttaggt ccctgtagac ccaggagagt tgagagggtg ggggacacag agagaataga 780
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<210> 290

<211> 3091

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (24)

<223> n equals a,t,g, or c

<400> 290

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tgcataaatt atttctatta ttattcatgt atgttattta tttctgaatc aactagttcc 360
tgtgaaagta caactgcaag gcagaaagtg ttaggatttt gcatctaatag ttcattatca 420
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ttatcattat gtaaaggaaat taaagtaaag gactttgtag ttgtttttat taaatatgca 600
tatagtagag tgcaaaaata tagcaaaaat aaaaactaaa ggtagaaaag catttttagat 660
atgccttaat ttagaaaactg tgccagggtg ccctcggaat agatgccagg cagagaccag 720
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tgtgagagtt tttctgtaga agcagaactg tcagcttggt ccttgaggct tccagaacgt 900
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cattaaattc caagttttag caaaaaaaaa a 3091

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&lt;210&gt; 291

&lt;211&gt; 518

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 291

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aggcatgaag aagagtgtgg gtactgtttc ctccacagcg gccagagtca ggggtggggag 60
tgagtccagt tgagggggaa acagtaccag cactgcgggg catgaagaag agtgtggggc 120
tgccggtggc cgtgcagtgt gtgctctgac cctggcaaga agagtgtgtg ctgcggttca 180
tgccggaggt ggagcgactg atgacctctg aaaagcagtc atcctgatgg ctctggctcc 240
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gccacagcaa ggaaatgtcc tgcatggggc agaggcttcc gtgtcctctc ccccaacccc 360
ctgcaagaag cgccgactcc ctgagtctgg acctccatcc ctgctctggt cccctctctt 420
cgctctgatc cctccacccc catgtggcag cccatgggta tgacatagcc aaggcccaac 480
taacagtcaa gaaacaaaaa aaaaaaaaaa aaaaattc 518

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&lt;210&gt; 292

&lt;211&gt; 498

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

<221> misc feature  
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 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (468)  
 <223> n equals a,t,g, or c

<220>  
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 <222> (475)  
 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (482)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (489)  
 <223> n equals a,t,g, or c

<400> 292  
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 ccaggaagcc gtgtcagcgg ccggagcggc agctcagcaa gtggtggacc aggccacaga 180  
 ggcggggagc aaagccatgg accagctggc caagaccacc caggaaacca tcgacaagac 240  
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 acagcaggga gacttgggtc ggctcctga aatgayagca ggagacttg ggtgaccccc 360  
 cttccaggcg ccattctagca cagcctggcc ctgatctccg ggcagccacc acctcctcgg 420  
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 gntccaagnt tagttacg 498

<210> 293  
 <211> 469  
 <212> DNA  
 <213> Homo sapiens

<400> 293  
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227

gcctcctgaa atgayagcag ggagacttgg gtgaccccc ttccaggcgc catctagcac 360  
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acgttcccaa aaaaaaaaaa aaaaaaaaaa gggggggccc gtccccatt 469

&lt;210&gt; 294

&lt;211&gt; 668

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (568)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (650)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (652)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (658)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 294

gcacagaagg gggaggccaa agtgggtggg agcgcgtgct gttgggagtt gcttgagggt 60  
tggcggcgcg gggctgaagg ctagcaaacc gagcgatcat gtcgcacaaa caaatttact 120  
attcggacaa atacgacgac gaggagtgtt agtatcgaca tgtcatgctg cccaaggaca 180  
tagccaagct ggtcccataa acccatctga tgtctgaatc tgaatggagg aatcttggcg 240  
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tgttcgcggc cccactacct aagaaaccaa agaaatgaag ctggcaagct acttttcagc 360  
ctcaagcttt acacagctgt ccttacttcc taacatcttt ctgataacat tattatgttg 420  
ccttcttgtt tctcactttg atatttaaaa gatgttcaat aactgtttg aatgtgctgg 480  
taactgcttt gcttcttgag tagagccacc accaccatag cccagccaga tgagtgtctc 540  
gtggaccaca gcctaagctg agtgtgancc cagaagccac gatgtgctct gtatccagac 600  
acacttggca gatggaggaa gcatctgatt gagacatggt gtacaggctn gnaatgcngt 660  
ttgttttc 668

&lt;210&gt; 295

&lt;211&gt; 1400

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 295

gctttgtcct ccagtggctg gtaggcagtg gctgggaggg agcggcccaa ttagtgctgt 60  
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<210> 296

<211> 960

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (599)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (859)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (933)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (950)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (951)



<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (959)

<223> n equals a,t,g, or c

<400> 296

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gggcccggcg cgggtgtgga gcggcgcgtc atgtacacca tcaccaaggg gccagcaag 180
ctggtcgcg cgcgcgcac aggtcccacg cagcagcagg tggaggggcg gctcggcgag 240
ctcctgaaat gccgcagcc cgcgcgcgcg acctcgcagc ccccgcgggc gcagccyttt 300
gcgcascgccc gggaccctgg cccctgtcga gtccaggggc aaggcttggt ttcaatcgtg 360
tgaatggccg gcgggcccc tccacgtccc catccttcga ggggacccag gagacctaca 420
cagtggccca cgaggagaat gtccgctttg tgtccgaagc ctggcagcag gtgcaacagc 480
agctggatgg tggccagcc ggtgaggggc ggccaaggcc tgtgcagtag gtggagagga 540
cccccaatcc ccggctgcag aactttgtgc ccattgacct agacgagtgg tgggcgcanc 600
agttcctggc gagaatcacc agctgttcct agtggctgct gggagggggc gctgctacac 660
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tgccggccac acctgaagtg ccagcatttg gacttttgca ctttttttc ccttggcccg 780
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tgtgcccagg gaccagcgna cccccctggg gctggcaggg aggagctcca ggctaataaa 900
gtggagaaac tgtcaaaaaa aaaaaaaaaa aantcagagg gggggcccg ncccaattnc 960
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<210> 297

<211> 657

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (86)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (88)

<223> n equals a,t,g, or c

<400> 297

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caggaattcg gcacgagctc gtgccngncc tttggagcag agaggaggca atggccacca 120
tggaagaaca ggtgatctgc gccctggtcc tgggtgtccat gctggccctc ggcaccctgg 180
ccgaggccca gacagagacg tgtacagtgg cccccgtga aagacagaat tgtgggtttc 240
ctgggtgtcac gccctcccag tgtgcaataa agggctgctg tttcgacgac accgttcgtg 300
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gggtcccctg gtgcttctat cctaatacca tcgacgtccc tccagaagag gagtgtgaat 360  
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attagtccca gagctcggct gccacctcca ccggacacct cagacacgct tctgcagctg 480  
tgcctcggct cacaacacag attgactgct ctgactttga ctactcaaaa ttggcctaaa 540  
aattaaaaga gatcgatatt aaaaaaaaaa gaaaaggaaa aaaaagggcg gccgtctaag 600  
aggatccaag cttacgtaac gcgtgcatgc gaaggcata gctcttctat agtgtca 657

<210> 298

<211> 892

<212> DNA

<213> Homo sapiens

<400> 298

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cctctgcctg cccctgtgga ctgatgctat cgcgcaccgt cccacgaccc caccctgagc 180  
tcctgaagcc ggggtctgag cctgcatcac ctctggcctc tcatcccca ctctcctgag 240  
agcagtggtc acagcggccg gccgctctgc tgagaaggca gagaggcagg ctcaggcctc 300  
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caggactctc aggtgcagct ttgccaaaaa ggaacttttc atgtcatgca gttgagggga 420  
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cccagcgctc tccacggacc agccagaggg actggagcca ggtgtgcatg ggttcaaggc 660  
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tcccaagaac aagatgtgat ggcattctgct gctgaaacct tgatgaggac caggccccct 780  
gcaccgctgt cagcctgagg aattaaagct ttggtgctgg gaaragcaaa aaaaaaaaaa 840  
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<210> 299

<211> 1624

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1621)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1623)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1624)

<223> n equals a,t,g, or c

<400> 299

cccgggctgc aggaattcgg cagcagagag gaggtccac aggcctctgc cctggrctac 60

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cgagtccccc gatggtgtta tacattaaat atccaggatg gagaagccac atgctactca 120
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gcttttcgatt gattggaagg aggtcgggtgc aatgcctgcc aagccgtcgt tggctctgaa 240
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cctgcacaaa tggagtgtct cttgactctc gctgtgacta cagctgttcc agtggctacc 360
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acaggccttg ggcagtgggt tgggggtaga agttcttcct ttcctaaccg gggccctgc 1560
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nann 1624

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<210> 300

<211> 1969

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<400> 300

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ggatccggag ccgccgaag cgggtgccgc agccccctgc gcccccggtg ccccgacat 120
gtccttccgc aaagtgttcc ggcagagcaa attccggcat gtgttcgggc agccggtcaa 180
gaacgaccag tgctatgagg acattcgcgt gtcccggtgt acctgggaca gcaccttctg 240
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ggtgctcccc ctaagcaaga cgggccgcat tgacaaggcc taccgacgg tgtgtgggca 360
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cccacggccc gaaacgtgct gctcagtgca ggctgcgaca acgtgggtact catctggaat 600
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gacctctgag ggaccatctc cccgaccact gccagccct ctgctccctc cccagaggag 1860
gcgggagggt gggctctata ttttcattcc aaataaaatt ctctttctaa aaaaaaaaaa 1920
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaacga cgtcgtggg 1969
```

<210> 301

<211> 1882

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (22)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (223)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1840)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1849)

<223> n equals a,t,g, or c

<400> 301

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ggagacggac gcggggctgt acacctgcaa cctgcacat cactactgcc acctctacga 120
gagcctggcc gtccgcctgg aggtcaccga cggccccccg gcacccccgc ctactgggac 180
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gcagccgccc ggggtccccg acgaccgcgcg ggaccgcctg ctggacctct acgcgtcgcg 360
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taagcgcggt gacttctcac tgcgtatcga gccgctggag gtcgccgacg agggcaccta 480
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cccagagacc gagccactt cttccagcag ctgggctacg tgcggccac gctgctgctc 600
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&lt;210&gt; 302

&lt;211&gt; 2804

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 302

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&lt;211&gt; 3859

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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&lt;221&gt; misc feature

&lt;222&gt; (581)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (889)

&lt;223&gt; n equals a,t,g, or c

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&lt;221&gt; misc feature

&lt;222&gt; (890)

<223> n equals a,t,g, or c

<400> 303

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<212> DNA

<213> Homo sapiens

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<222> (3361)

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<223> n equals a,t,g, or c

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3378

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&lt;210&gt; 307

&lt;211&gt; 666

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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&lt;221&gt; misc feature

&lt;222&gt; (588)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (664)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 307

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&lt;211&gt; 2171

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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<220>  
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<222> (2166)  
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<220>  
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<212> DNA

<213> Homo sapiens

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 311

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```



```
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aaa 2163
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<210> 312

<211> 1397

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1397)

<223> n equals a,t,g, or c

<400> 312

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ggctcctctca ggaaaggggg gcgttgggaa aagcaccatc tccacggagc tggccctggc 180
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```

```

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aaaaaaaaaa aaaaaan

```

1397

&lt;210&gt; 313

&lt;211&gt; 4106

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (344)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 313

```

ttactatcag acagccccc aagcagatta cagccaagggt gcaactcagt atactcaagc 60
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gccatcctat actcagagt ctacttacag taccacagca gttacatatt ctggtacgtc 240
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tgaaaggagt tttgcagtg ggagtattgg caaaaggatt acttctccga ggagatagaa 1860

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<210> 314

<211> 532

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (497)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (498)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (502)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (524)

<223> n equals a,t,g, or c

<400> 314

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ccatgccc aa gtgtcccaag tgcaacaagg aggtgtactt cggcgagagg gtgacctctc 180
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ggtggtggag accccatcct tggctgcttg cagggccact gtccaggcaa atgccaggcc 420
ttgtcccag atgccagggt ctcccttggt gccccaatg ctctcagtaa acctgaacac 480
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<210> 315

<211> 1938

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1270)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1455)

<223> n equals a,t,g, or c

<400> 315

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agggctcagc aggcattttc ggaaagcagg gtgaaattgt ctcttcccag gaaaaagatt 1860
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cgcgatctag aactagtc 1938
```

<210> 316

<211> 818

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (55)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (814)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (818)

<223> n equals a,t,g, or c

<400> 316

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cccagcaact caaattcacc acctcgact cctgcgaccg catcaaagac gaatttcagc 180
tactgaagc tcagtaccac agcctcaagc tcgaatgtga caagttggcc agtgagaagt 240
cagagatgca gcgtcactat gtgatgtact acgagatgtc ctacggcttg aacatcgaga 300
tgacacaaaca ggctgagatc gtcaaaaggc tgaacgggat ttgtgcccag gtcctgccct 360
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250

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ccatagtatt atgktggccc gggggggggc ccancan 818
```

&lt;210&gt; 317

&lt;211&gt; 837

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 317

```
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```

&lt;210&gt; 318

&lt;211&gt; 1448

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (878)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1198)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1395)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1397)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1445)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 318

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aaacntgg                                     1448

```

&lt;210&gt; 319

&lt;211&gt; 1493

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 319

```

tcgaccacag cgtccggaag taatgatgac aaaatactct aacctttcct tggagagtca 60
taacttctcg ctgactgctt cacctcttac aagtctgccc atcccggaag taatgatgac 120
aaaatactcc aaccttttct tggaaagtca taacatctca ctgactgaac attccagtgt 180
gccagtggaa aaaaatatca ctttagaacg accttctgct gtagaactca catgtcagtt 240
cacaacttct ggggatgtga attcagtaaa tgtgacttgg aaaaaagggg atgaacaact 300
taagaattac catgtcagtg ccacagaagg catcctgtat acccagtaca agttttccat 360
cattaatagc gaacaactgg gaagctattc ttgtttcttt gaagaggaaa aggaacgaag 420
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tgtgggggat tccgttgtct tgggtgtgaa atgccgacac tgtgtctcct taaattggac 540
ctggtacagt ggtaatagga gtgtacaggt tcctcttgat gttcacatga atgaaaagta 600

```

252

```

tgcgatcaat ggaacaaacg cgaatgaaac aaggcttaag ataatgcagc tttcagaaga 660
cgataaagga tcttattggt gccatgcaat gttccagttg ggcgagagcc aagaaagtgt 720
tgaaactggt gtgataagtt atttggtgcc cctcaaacca tttcttgaa tagttgttga 780
agttattctt ttagtggtta ttattctgtt ttgtgaaatg cacacccaaa agaaaaagat 840
gcacatggat gatgggaaag aatttgaaca agttgaacag ttgaaatcag acgatatcaa 900
cggcatagaa aataatgcc ccaggcacag aaaaaatgaa gctatgagcc agtgaaagca 960
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cagcagtagt tttgcaataa tacctgctat ctcagatcca aagatatatt ttccttctgt 1140
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attaagaaat gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaggcgccg cgc 1493

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&lt;210&gt; 320

&lt;211&gt; 609

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 320

```

ggcacgagtg gcttctgacc ctttcttccg ccactaccgc cagctcaatg agaagctagt 60
gcagctcatc gaagactata gccttgcttc ctttatccct ctcaacatcc aggacaagga 120
gagcatccag cgagtccctgc aggctgtgga taaagccaat ggatactgtt tcggagccca 180
agagcagcga acttggaagc catgatgtct gccgcaatgg gagccgactt ccatttctct 240
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tggcgggctg gcaaggggat attcagctct gcaaaggact tctggccaaa aagccagaca 480
tggtgccaag cagaacaccc ccatactgt cagtgtgtc cgtgagctct ggccctgcca 540
ccagaaagtc gagcactggg cctagtcagg ctgtgatgaa atgtgctaca atacaagagt 600
ttattttct 609

```

&lt;210&gt; 321

&lt;211&gt; 502

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (458)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 321

```

tagtggatcc cccgggctgc aggaattcgg cagagcaga gcttcgctct tgetgctccc 60
ctgaggtgaa ctgaagccag cagccccgca tcatgtcaaa gctcggccgg gccgcccggg 120
gcctcaggaa gcccgaggtc ggcgggtgtra tccgggcgat cgtgcgggca ggcctggcca 180
tgcccgggcc ccactaggc ccagtgtgtg gtcagagagg cgtttccatc aaccagtttt 240
gcaaggagtt caatgagagg acaaaggaca tcaaggagg cattcctctg cctaccaaga 300
tttttagtgaa gcctgacagg acatttgaaa ttaagattgg acagcccact gtttcctact 360

```



253

tcctgaaggc agcagctggg attgaaaagg gggcccggca aacagggaag gaggtggcag 420  
gcctgggtgac cttgaagcat gtgtatgaga ttgcccgnat caaagctcag gatgaggcat 480  
ttgcctgcag gatgtacccc tg 502

&lt;210&gt; 322

&lt;211&gt; 2630

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1952)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 322

gggcatccag agtacgggtc gagcccgggc catggagccc ccctggggag gcggcaccag 60  
ggagcctggg cggcccgggc tccgccgcga ccccatcggg tagaccacag aagctccggg 120  
acccttccgg cacctctgga cagcccagga tgctgttggc caccctcctc ctccctcctc 180  
ttggaggcgc tctggcccat ccagaccgga ttatttttcc aaatcatgct tgtgaggacc 240  
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gcacctcccc tgccaactgc acctggtcga tcctgggcag caaggaacag actgtcacca 360  
tcaggttcca gaagctacac ctggcctgtg gctcagagcg cttaaccta cgtccccctc 420  
tccagccact gatctccctg tgtgaggcac ctcccagccc tctgcagctg cccgggggca 480  
acgtcaccat cacttacagc tatgtctggg ccagagcacc catgggccag ggcttccctg 540  
tctcctacag ccaagattgg ctgatgtgcc tgcaggaaga gtttcagtgc ctgaaccacc 600  
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254

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cccgagagccc ccctggacccc cacacagcag tcctggccctt ggaagatgag gacgatgtgc 2220
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taaagttctt agaggatmaw aaaaaaaaaa aaaaaaaaaa aaaaaaaagg 2630

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&lt;210&gt; 323

&lt;211&gt; 1874

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (67)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1735)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 323

```

tcgacccacg cgtccggccg gggcgccctc cggaagcttt tccaactttc cagaagtttc 60
tcgggagggg cgggaggagg ggaacgccat atatagacct ggagagccgg gagcgaggag 120
agtggaatcg gtccgcggtc cgagtgggtc tctagtccgg cgccagccgc ccggcccagc 180
cctcacaggt ccttcgttgt gcataccatc cgctcccag ccatgcgctt cctcctgctt 240
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ctcctgagac acatgggtgc tatggggggg agctgaggta ccgaccttgg atgtgccatg 1560

```

```

gggtgggggt gggaaaacag agcaggcttc ctggatgtct gagcagatct tcccaggcag 1620
aattgactct gtctggatgt gggcccccag ataccgtgat gctgagcccg gacacscac 1680
attctgrggr ccctgggggc agttggcgtg tcttgccctc agcatcctgg gattnaagcc 1740
tgccttcaat cagtgttcat atttatagcc aagtgccttc tcatctgtga gacagaatcg 1800
agctargggg cttcagccca gccctgtgga atggggaccg tcttttcctt accctaccat 1860
cacctcagcc ctaa 1874

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&lt;210&gt; 324

&lt;211&gt; 2325

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 324

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aagaaatgca gatgagtgtg aaacatctgt tctcaattat gttgatctgt gtgcgcagta 60
ctggagcatt taccatttca tgttgagcct caaatgcttg ttttctgggg tccacaaaag 120
acagttttat acatttttgag ttgttcataa agtttgctct gtgatagtcc tggcacttaa 180
agacaaatth ttctggtagt aaaagttcag atttattact atgtcatgaa acacagtaca 240
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tggcattctt tacattaaaa tgatattgat ctcatthttt taaataaaca ttttgtttcc 2280

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ttgacgttaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaa

2325

<210> 325

<211> 785

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<400> 325

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cccaggagtt ccggaagcca aagccccccc acgaggggtcc cgcgaagacc tggaggcgga 120  
ggagagcccc gagctgctga accctgagcc caggagactg agcccagagt tgaggctact 180  
gccctatatg atcactctgg gcgacgccgt gcacaacttc gccgacgggc tggccgtggg 240  
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cgagttgcca cagagactgg gggacttcgc cgccttgctg cagcggggc tgtccgtgcg 360  
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gttccctctac gtagcactct gcgacatgct cccggcgatg ttgaaagtac gggacccgcg 540  
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ttgacttaag atccccaccc tcacaaacct acagcccaga aaccagaagc ccctatagag 720  
gccccagtc caactccagt aaagacactc ttgtccttggt aaaaaaaaaa aaaaaaaaaa 780  
aaaaa 785

<210> 326

<211> 244

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (244)

<223> n equals a,t,g, or c

<400> 326

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gcgtccgacg acagaagggt acggctgcga gaagacgaca gaagggtacg gctgcgagaa 120  
gacgacagaa gggtagcgct gcgagaagac kacagaaggg tacggctgcg agaagackac 180  
agaagggtac ggctgcgaga agacgacaga aggtacggct gcgagaagac gacagaggggt 240  
acgn 244

<210> 327

<211> 2454

<212> DNA

<213> Homo sapiens

<400> 327

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gnaggctgna gtgggcagat cgcttgagcc caggagtttg agatcagcct gggcaacatg 240  
gtgaantcca tctctgtgaa aaatacaaaa attagccagg tgtggtggtg cgcgcctgtn 300  
antcccagct actagggagg ctgaagggtg gnggnttgnt tnagcccagg aggttgaggc 360  
tgcattnggc tgggattcaa accatgttac tcctgacca ngtnngncct ntttcaaann 420  
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agggatagca cagatataaa acatttcctc ccaaagtgtt gggattacag gcatgagcca 240
ccgcgcccgg cctatcatat gaattttgag ggaacacaat catgcagtct gtagcagatg 300
gtaataggct gatataattac acttggtgat gtaanctgga tangtttctt tcttctccaa 360
ggacagcttt tttaatattt aacantncca ttaatttttc agtttccggg agaattttat 420
aatttataat tgccgactta ngganaancc aattggncca accattacaa tanattttta 480
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ctggncagac accgntgnaa cggnnattat ttcaccctca gagagaggct gatcactatg 180  
caaaaacaac tgggaggaaa cccagaagta tattgaatga gcagtgcaga ttagagttgc 240

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ccatatcgat gggcancaat tgncaattat tgtgnagcaa tacacacggg gtttccangg 300
gagtnttaaa tgccttaaaag taattaaaaan ccgggggcaat nccntttttac ggatgttttg 360
ctgggggtttc cgttttttaac caacatTTTT ntnggggncc gnccacaaat tttgggggttg 420
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aatgtngcca ntgtctgtct gcagattggc taccacaactg ttgcatcagt accccattct 180  
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cttgctgaan aagtcanggc ttcttggctg atccatctgc cttingtggct gctgccngt 300  
tggctgctgc caccacaact gtcctgctg ctgctgcnc ccanccttaag ttnaaaccca 360  
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tcacggccac cgtcatcctt gtctcggccg gggaaacctt cctggtgtac acagaccggc 240
tctattctcg ctcgacttc aacaactacg tggctgctgt atacaagggtg ctggggactt 300
cctgtttggg gctgccgtga gccagtctct gacagacctg gccaagtaca tgattgggcg 360
tctgaagccc aattctaanc gtctgcgaac ccgattgaac cggatcaatgc tcgtnatgtg 420
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catcaaagtc tactacacct tgagaaaaca aatgaacgan aatctatttt cctcattcat 180  
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cccgaagcg gaagtggaag aaagttctag tggcttgaga ttaagcctga tcaagatgac 180
aacctcccaa aagcaccgag acttcgtggc agancccatg ggggagaacc agtggggaac 240
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tnttgtcttg gccatttctg gtgctaaaaa anataaaaaac tctcccggaa tggtgaaaan 360
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<220>

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<222> (244)

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<220>

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<222> (245)

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<220>  
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<222> (252)  
<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<222> (267)  
<223> n equals a,t,g, or c

<220>  
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<222> (286)  
<223> n equals a,t,g, or c

<400> 335  
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ggccgctcta gaactagtgg ggggcccggt acccaattcg ccctatagtg agtcgtatta 120  
caattcactg gccgtcgttt tacaacgtcg tgacnnggaa aacntnnaat ncttccggct 180  
cgtatgttgt gtggaattgt nagecgataa caattcacac aggnancagc tataaccatg 240  
attnnnccaa gntcgaaatt aacntnact aaaggggaca aaagtngggg ctccacg 297

<210> 336  
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<212> DNA  
<213> Homo sapiens

<220>  
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<220>  
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<220>  
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<220>

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<222> (185)

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<220>

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<220>

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<220>

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<222> (244)

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<222> (251)

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<222> (265)

<223> n equals a,t,g, or c

<220>

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<222> (272)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (275)

<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<222> (322)  
<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<220>  
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<223> n equals a,t,g, or c

<220>  
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<222> (346)  
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<220>

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<222> (359)

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<220>

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<220>

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<222> (365)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (380)

<223> n equals a,t,g, or c

<400> 336

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gatgggcagc gactacatcc gtgaggtgaa tgtggtgaag tctgcccgtc tcggttattc 60
caaaatgctg ctgggtgttt atgcctactt tatagagcat aagcagcgca acacccttat 120
ctggttgncg acggatggtg atgcccngga actttatgaa aaaccacgt tgagcccgac 180
tattngngat attccgtcgn tgcntggggc tggcccctgt gtatggcaaa aaagcaccgg 240
gttnaacaag ntcaaccatg naagngtttc anctnaatgg gggggncccc gtaacccaat 300
tngncctata agtnnatggg antttaanaa ttcaatnggc cctngntttt aaatggtgng 360
tgntnggcct ttttttttn gtttgt 386
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<210> 337

<211> 506

<212> DNA

<213> Homo sapiens

<220>

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<222> (13)

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<220>

<221> misc feature

<222> (307)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (340)

<223> n equals a,t,g, or c

<220>

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<222> (360)  
<223> n equals a,t,g, or c

<220>  
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<220>  
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<222> (414)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
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<223> n equals a,t,g, or c

<220>  
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<222> (439)  
<223> n equals a,t,g, or c

<220>  
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<222> (469)  
<223> n equals a,t,g, or c

<220>  
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<222> (470)  
<223> n equals a,t,g, or c

<220>  
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<222> (471)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (472)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (481)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (483)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (501)

<223> n equals a,t,g, or c

<400> 337

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caccactatg taccctggca ttgccgaccg aatgcagaag gagatcacgg ccctagcacc 120
cagcaccatg aagatcaaga tcattgcccc tccggaggcg caaatactct gtctggatcg 180
gtggctccat cctggcctct ctgtccacct tccagcagat gtggatcagc aaacagggaa 240
tacggtgaag ccgggccttc cattgtccac cgcaaagtct ttcttaaac acttttcctg 300
gttcctnttc tgtcttttag gcacacaact gtggaatgtn cctgtgggaa tttatggccn 360
tttcagtttc tttttccaaa tcattcctag ggccaaagtt ttgnattggt tnanccatgg 420
ggttttttta aataaantnt ggaaataggg ttaattggtt aaaaaaaann nnaaaaaaaa 480
ntntgggggg ggggggcccg ntaccc 506
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<210> 338

<211> 623

<212> DNA

<213> Homo sapiens

<220>

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<222> (441)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (508)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (509)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (513)

<223> n equals a,t,g, or c

<220>

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<222> (537)

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<222> (565)

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<220>

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<222> (597)

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<222> (599)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (612)

<223> n equals a,t,g, or c

<400> 338

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gcggaacttg ctactaccag caccatgccc taccaatatc cagcactgac cccggagcag 60
aagaaggagc tgtctgacat cgctcaccgc atcgtggcac ctggcaaggc catcctggct 120
gcagatgagt ccaactgggag cattgccaag cggctgcagt ccattggcac cgagaacacc 180
gaggagaacc ggcgcttcta ccgccagctg ctgctgacag ctgacgaccg cgtgaacccc 240
tgcatggggg gtgtcatcct cttccatgag acactctacc agaaggcggg tgatgggcgt 300
cccttcccc aagttatcaa atccaagggc ggtgttgtgg gcatcaaggt agacaagggc 360
gtgggtcccc tggcagggac aaatggcgag actaccacc aagggttgga tgggctgtct 420
gagcgtgtg cccagtacaa ngaaggacgg agctgacttc ggccaagtgg cgttgtgtgc 480
ttaagaatgg gggaacacac cccctcannc ctnggcacatc tggaaaatgc caattgntct 540
ggccccgtat gccagtatct ggcancagaa tgcatggggc cattcgggga gtctgananc 600
tcctgatggg ancatgactt gaa 623
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<210> 339

<211> 344

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (88)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (157)

<223> n equals a,t,g, or c

<220>

<221> misc feature  
<222> (171)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (210)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (298)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (317)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (330)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (343)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (344)  
<223> n equals a,t,g, or c

<400> 339  
tcgacccaag cgccgcttc aacatgattt gtcacaatct tatcaataat cattactctg 60  
ttttttatat ttcaactaaa agtatcanaa tatagctttc cagaaaaccc cgaaccaaag 120  
tactgacta catcaaagtc tactacacct tggaganaac aaatgaacga naatctattt 180  
tcctcattca ttacccaac aataataggn ctccctatcg taattattat cactatgttt 240  
ccaagcatta tattcccatc acctaccga ctaatcaata atcgactcat ctccattnca 300  
acaatggatt agtgcantga acatgcaaan gcaaggatta tcnn 344

<210> 340  
<211> 345  
<212> DNA  
<213> Homo sapiens

<220>  
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<220>  
<221> misc feature  
<222> (13)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (31)  
<223> n equals a,t,g, or c

<220>  
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<222> (88)  
<223> n equals a,t,g, or c

<220>  
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<222> (90)  
<223> n equals a,t,g, or c

<220>  
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<222> (128)  
<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<222> (173)  
<223> n equals a,t,g, or c

<220>  
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<222> (296)  
<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<222> (339)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (343)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (345)  
<223> n equals a,t,g, or c

<400> 340  
agacangctc tantacgact cactataggg naaagctggt acgcctgcag gtaccgggtcc 60  
ggaattcccg ggctcgaccca cgcgtccngn aggaggggac agctgcgggc gcggggaggg 120  
ggcgccgngc cgcgnggngc catggnggac agnagagccg ggagtccgag annccgggcc 180  
gcagcccag atgtcgccgc catggcttcg ccgcagctct gccgcgcgct ggtgtcggcg 240  
caatgggtgg cggaagcgt gcgggccccg cgcgctgggg cagcctctgc agctgntagg 300  
acgcctcctg gtnacctggc cggaagctgg ggggcgcgna cgncn 345

<210> 341  
<211> 170  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (20)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (23)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (43)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (86)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (160)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (163)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (164)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (170)

<223> n equals a,t,g, or c

<400> 341

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acccacgcgt ccgcccacgn tcncgactag ttctagatcg cgnacggccg ctctagagga 60
tccaagctta cttggacatg catgcnacgt catagctctt ctatagtgtc acctaaattc 120
aattcactgg ccgtcgtttt acaacgtcgt gactgggaan atnntaaaan 170
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<210> 342

<211> 387

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (238)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (273)

<223> n equals a,t,g, or c



<220>  
<221> misc feature  
<222> (328)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (337)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (351)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (366)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (384)  
<223> n equals a,t,g, or c

<400> 342  
aatgacttgg ttgagtactc accagtcaca gaaaagcatc ttacggatgg catgacagta 60  
agagaattat gcagtgtctc cataaccatg agtgataaca ctgcggccaa cttacttctg 120  
acaacgatcg gaggaccgaa ggagctaacc gcttttttgc acaacatggg ggatcatgta 180  
actcgccttg atcgttggga accggagctg aatgaagcca taccaaacga cgagcgtnac 240  
accacgatgc ctgtagcaat ggcaacaacg ttngcaaact attaactggc ggactactta 300  
ctctagcttc cgggaacaa tttatagnct tgggtgnggc gggtaaagtt ncaaggccca 360  
tttttnggtt tggccttcg gttngtt 387

<210> 343  
<211> 186  
<212> DNA  
<213> Homo sapiens

<220>  
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<223> n equals a,t,g, or c

<220>  
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<222> (64)  
<223> n equals a,t,g, or c

<220>

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<222> (71)  
<223> n equals a,t,g, or c

<220>  
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<222> (109)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (152)  
<223> n equals a,t,g, or c

<220>  
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<222> (153)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (160)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (183)  
<223> n equals a,t,g, or c

<400> 343  
gctgcaggaa attaacagag tctacnagga aatgtacaag actgatctgg agaaagacat 60  
tatntcggac ncatctggtg acttccgcaa gctgatggtt gccctggcna aagggttaaaa 120  
aacagaagaa tgggtccgtcc ttgaatatga anngaatan ccacatgccg ggatttcctt 180  
ganccc 186

<210> 344  
<211> 611  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (8)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (11)  
<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (285)

<223> n equals a,t,g, or c

<400> 344

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tgcaaggnga nactaccctc actaaaggga acaaaagctg gagctccacc gcggtgcggc 60
cgctctagaa ctagtggatc ccccgggctg caggaattcg gcacgagctg cgttgggctc 120
cgggaagccg ttcgggctgg ggctgtcggc cgcggggcgg aggcactcgc gcgggggatg 180
gccactgcg tgaccttggg tcagctgtcc atttctgtg accatctcat tgacaaggac 240
atcggtcca agtctgacct actctgcgtc cttttacagg atgtnggagg gggcagctgg 300
gctgagcttg gccggactga acgggtgcgg aactgctcaa gccctgagtt ctccaagact 360
ctacagcttg agtaccgctt tgagacagtc cagaagctac gctttggaat ctatgacata 420
gacaacaaga cgccagagct gagggatgat gacttcctag ggggtgctga gtgttcctta 480
ggacagattg tgtccagcca ggtactgact ctccccttga tgctgaagct ggaaaacctg 540
ctgggcgggg gaccatcacg gtctcagctc aggaattaaa ggacaatcgt gtagtaacca 600
tgagagtaga g                                     611
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<210> 345

<211> 344

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (289)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (296)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (329)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (331)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (342)

<223> n equals a,t,g, or c

<400> 345

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tttccttcta cagtattcct gaatttgacg aatggaaaaa acatatagaa aaccagaaag 60
cctggaaaaat aaagtactat aaaggattgg gtactagtac agctaaagaa gcaaagggaat 120
atattgctga tatggaaagg catcgcatct tgtttagata tgctggtcct gaagatgatg 180
```

288

ctgccattac cttggcattt agtaagaaga agattgatga cagaaaagaa tggttaacaa 240  
attttatgga agaccggaga cagcgtagct acatggctta ccagaggant gattcnctct 300  
caactcagac atgaaagatc tataccacnc ntgttgatgg cntt 344

<210> 346

<211> 506

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (392)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (452)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (453)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (472)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (480)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (495)

<223> n equals a,t,g, or c

<400> 346

ggaaaagccc aaggaaaaag caaagaatag caaaaaaaag ggggccaaga aggaagtggg 60  
tgggattggg cttctttttt cttcagttag ttttttcccc aacaggttct gatggtcctt 120  
tggctaccag caaaccagtc cctgcagaaa agtcaggtct tccagtgggt cctgagaacg 180  
gagtagaact ttccaaagag gagctgatcc gcaggaagcg cgaggagttc attcagaagc 240  
atgggagggg tatggagaag tccaacaagt ccacgaagtc agatgctcca aaggagaagg 300  
gcaaaaaagc accccgggtg tgggaactgg gtggctgtgc taacaaagaa atgttggatt 360  
acagtacttc caccaccaat ggaaccctg angcttgctt tgtctgagga cattaacctt 420  
gattccaagg gactgggtct ggggggcact tnnngatctg gactgcacac tntgatgacn 480  
aagggttgtg taaantttcc aaacta 506

<210> 347

<211> 444  
<212> DNA  
<213> Homo sapiens  
  
<220>  
<221> misc feature  
<222> (289)  
<223> n equals a,t,g, or c

<400> 347  
cggaaggag accatgttcc gagcggcggc tccggggcag ctccggcggg cggcctcatt 60  
gctacgattt cagagtaccc tggtaatagc tgagcatgca aatgattccc tagcacccat 120  
tacttttaaat accattactg cagccacacg ccttggaggt gaagtgtcct gcttagtagc 180  
tggaacccaaa tgtgacaagg tggcacaaga tctctgtaaa gtagcaggca tagcaaaagt 240  
tctggtggct cagcatgatg tgtacaaagg cctacttcca gaggaactna caccattgat 300  
tttggcaact cagaagcagt tcaattacac acacatctgt gctggagcat ctgccttcgg 360  
aaagaacctt ttgcccagag tagcagccaa acttgagggt gccccgattt ctgacatcat 420  
tgcaatcaag tcacctgaca catt 444

<210> 348  
<211> 358  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (19)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (52)  
<223> n equals a,t,g, or c

<220>  
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<222> (187)  
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<220>  
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<220>  
<221> misc feature  
<222> (295)  
<223> n equals a,t,g, or c

<220>  
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<222> (301)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (317)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (348)

<223> n equals a,t,g, or c

<400> 348

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gacagacatg gaatcccaac cgcacaatgg gaaggctttc accaaacctg aaaggaagcc 120  
tgcagcttca ttttgagtgc agacttccct gctttgggtg tgaaaggcca gtggtcttgc 180  
agctggnaaa aggggtgatt gttgcaaaga gcaaagaaga ggcctgcaag ctgtacaaga 240  
gatcatgcag gtaggctggg tcttctggaa aaatttactn ttgtattcat actgnatgaa 300  
ntaccgtttt aagtttnaaa aatgttcctc acattaaggg aaattctntt ttgcaacc 358

<210> 349

<211> 321

<212> DNA

<213> Homo sapiens

<220>

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<222> (187)

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<220>

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<222> (206)

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<220>

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<222> (240)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (294)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (295)

<223> n equals a,t,g, or c

<220>  
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<222> (301)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (316)  
<223> n equals a,t,g, or c

<400> 349  
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tgcggaaccc ctacacgggt gccaccttcc tgctggccgc cctgcccacc agcctgctcc 120  
tgctgcagtg gtatgagccg ctgcagaagt ttctgctgct gaagaacttc tccagccctc 180  
tgcccanccc agctgggatg ctgganccgc tgggtgctgga tgggaaggag ctgccgcagn 240  
gttttttttg ggccgaaggg cctaaagggc ccggttgccg gttcctgttc caanncctgc 300  
ncctgggagg ttggcnttaa g 321

<210> 350  
<211> 742  
<212> DNA  
<213> Homo sapiens

<220>  
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<220>  
<221> misc feature  
<222> (653)  
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<220>  
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<223> n equals a,t,g, or c

<220>  
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<220>  
<221> misc feature  
<222> (689)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (702)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (707)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (714)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (719)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (722)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (734)

<223> n equals a,t,g, or c

<400> 350

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cttcaatgca gaagtgtttt tccgagaaga ctgctccccg gacgagttca tcgatgtgat 120
cgtgggcaac cgggtgtaca tgccctgcct gtatgtttat aacaaaatcg accagatctc 180
catggaagag gtggaccgcc tggcccgaac acccaacagt gtggtcatca gctgcggcat 240
gaagctgaac ctggactatc tgctggagat gctctgggag tacttggccc tgacctgcat 300
ctacaccaag aagagaggac agaggccaga cttcacagac gccatcattc tccgaaaagg 360
ggcctcagtg gagcacgtgg gcaccagcac caagtacagt ccgcagcggg tgggcctgac 420
ccacaccatg gagcatgagg acgtcatcca gatcgtgaag aagtaacggc gcctgccggg 480
ccttcgccc acctgctcgt ctcccttggg aggtggtccc actgggacac acaaacaccc 540
aaacagaaaa atacaaatac acgtacccca agaagggggtc cctcaagtct ctgctattta 600
cagaagtttc ttcagtangc agaccaaaaa tgtgttgggc aaaagggtc ggntggangc 660
atthttcata agactgagcc ctnttcatng ggggttttga gnttgantgc ttancctgna 720
tntgtgcctc caanccctg ac 742
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<210> 351

<211> 272

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (167)

<223> n equals a,t,g, or c



<220>

<221> misc feature

<222> (251)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (272)

<223> n equals a,t,g, or c

<400> 351

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aatcaggcgg gactgacggc agatcgtatg ctggtcctgt ccagagccgg gcaggcggca 60
gggctgacgt ttaaccagac cagcgagtca ctcagcgcac tggttaaggc gggggtaagc 120
ggtgaggctc agattgcgtc catcagccag agtgtggcgc gtttctnctc tgcacccggc 180
gtggagggtg acaaggtcgt tgaagccttc gagggggggc cgtaccatt tgcctatagt 240
aagcgtatta naataattgc cgtgttttaa an 272
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<210> 352

<211> 256

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

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<220>

<221> misc feature

<222> (236)

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<220>

<221> misc feature

<222> (248)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (251)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (252)

<223> n equals a,t,g, or c

<400> 352

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gcagacgtcc agagcagagt cagccagcat gaccgagcgc cgcgtcccct tctcgtcct 60
gcggggcccc agctgggacc cttccgcga ctggtaccgc catagccgcc tcttcgacca 120
```

```
ggccttcggg ctgccccggc tgccggagga gtggtcgcag tggtaggcn gcagcagctg 180
gccaggtac gtgcgcccc tgccccccgc cgcacgcaga gccccgcagt ggccgngccc 240
gctacagncg nncgct 256
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<210> 353

<211> 592

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (35)

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<220>

<221> misc feature

<222> (54)

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<220>

<221> misc feature

<222> (93)

<223> n equals a,t,g, or c

<220>

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<222> (277)

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<220>

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<222> (522)

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<220>

<221> misc feature

<222> (545)

<223> n equals a,t,g, or c

<400> 353

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ggttcccttc cacgctgtgg aagcattgta ctttnggtct tcatgataaa tctngctgct 60
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295

```

gctcactcgt tgggtccgtg ccacctttaa aanctgtaac actcaccgcg aaggctctgca 120
acttcactcc tggggccagc aagaccacga gtgcaccgag aggaatgaac aactctggac 180
acaccatctt taagaaccgt aatactcacc gcaaggggtct gcaacttcat tcttgaagtc 240
agtgaggcca agaaccatc aattccgtac acatttnggt gactttgaag agactgtcac 300
ctatcaccaa gtggtgagac tattgccaaag cagtgaact attgccaaagt ggtgagacca 360
tcaccaagcg gtgagactat cacctatcgc caagtgggtcc taagtgtgaa cgtgaagtcc 420
ccagccctgc tgctgagcca gttgctgccc tacatggaga acaagaaggg tgctgtcatn 480
ctggnctctt ccattgcagc ttataatcca gtagtggcgc tnggtgtcta caatgtcagc 540
aaganagagc tgctggggtc tcactagaac actggcattg ggcttgggcc cc 592

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&lt;210&gt; 354

&lt;211&gt; 539

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (4)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (223)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (225)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 354

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cacnaaccct cactaaaggg aacaaaagct ggagctccac cgcggtgacg gccgctctag 60
aactagtgga tcccccgggc tgcaggaatt cggcacgagc cgtctcaggc tcgtagtctg 120
ccttcaacat gccggaacca gcgaagtccg ctcccgcgcc caagaagggc tcgaagaaag 180
ccgtgactaa ggcgcagaag aaggacggca agaagcgcaa ggnanccgca aggagagcta 240
ctccgtatac gtgtacaagg tgctgaagca ggtccacccc gacaccggca tctcctctaa 300
ggccatggga atcatgaact ccttcgtcaa cgacatcttc gaacgcatcg cgggtgaggc 360
ttcccgcctg gcgcattaca acaagcgtc gaccatcacc tccagggaga tccagacggc 420
cgtgcgcctg ctgctgcccg gggagttggc caagcacgcc gtgtccgagg gcaccaaggc 480
cgtcaccaag tacaccagcg ctaagtaaac ttgccaagga gggactttct ctggaattt 539

```

&lt;210&gt; 355

&lt;211&gt; 435

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (296)

&lt;223&gt; n equals a,t,g, or c

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<222> (299)  
<223> n equals a,t,g, or c

<220>  
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<222> (396)  
<223> n equals a,t,g, or c

<220>  
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<220>  
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<223> n equals a,t,g, or c

<220>  
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<400> 355  
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atgaggacac actctctgtg gcactgccat atttctggga gcactttgat aaggacggct 120  
ggccccctgtg gtactcagag tatcgcttcc ctgaagaact cactcagacc ttcagagct 180  
gcaatctcat cactggaatg ttccagcgac tggacaagct gaggaagaat gccttcgcca 240  
gtgtcatcct ttttggaacc aacaatagca gctccatttc tggagtctgg gtcttncng 300  
gccaggagct tgcctttccg ctgagtccag attggcaagt ggactacgaa gtcatacaca 360  
tggcggaaac tggatctggc aagcgaggag acccanacgc tggttcgaga gtacttttnc 420  
nngngagggg gcctt 435

<210> 356  
<211> 502  
<212> DNA  
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<220>

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<220>  
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<222> (243)  
<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<220>  
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<223> n equals a,t,g, or c

<220>  
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<222> (298)  
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<220>  
<221> misc feature  
<222> (316)  
<223> n equals a,t,g, or c

<220>  
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<222> (317)  
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<220>  
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<222> (324)  
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<220>  
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<222> (328)  
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<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

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<222> (397)  
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<220>

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<222> (420)

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<220>

<221> misc feature

<222> (426)

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<220>

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<222> (430)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (437)

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<220>

<221> misc feature

<222> (440)

<223> n equals a,t,g, or c

<220>

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<222> (442)

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<220>  
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<220>  
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<220>  
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<220>  
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<220>  
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<220>  
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<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (478)  
<223> n equals a,t,g, or c

<220>  
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<222> (485)  
<223> n equals a,t,g, or c



<220>  
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<222> (497)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (499)  
<223> n equals a,t,g, or c

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gaagaatgaa cagaagggag agaagattcc tcggtgcttg ccagtttggtg ggaagcccgt 120  
gaaccccggtg gaacagaggc agcgcacatcat cggagggcaa aaagccangg ggatagtggg 180  
ggcggtttttg cagtaaggga cccgaacact gatcgctggg tggccacggg catcggtgnc 240  
ctngggcatc gngtgcagca gggccttatg gcttnttaca ccaaagtnc cnaacttncg 300  
tggccttgga tcaagnnaga cctngganca ggaggactnc cgccccanca ttcactaggt 360  
tccnaatcca gngagcagtt tcgcanaaan canccanaca cancttcccc ctntttngnn 420  
accenncagn gtctctnttn anatncctnc tngcacnnna ncccacaacc ccccnccnc 480  
cccnccccc ccccnccnc cc 502

<210> 357  
<211> 440  
<212> DNA  
<213> Homo sapiens

<220>  
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<222> (45)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (236)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (262)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (293)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (300)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (316)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (339)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (360)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (362)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (378)  
<223> n equals a,t,g, or c

<220>  
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<222> (387)  
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<220>  
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<222> (389)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (402)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (407)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (418)  
<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (426)

<223> n equals a,t,g, or c

<400> 357

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ctgttcaggc cggagccaca gaccgccgtt gaatgggagg atgctaatta ctatctcccg 120
aaagaatccg cataccagga agggcgctgg gaaacactgc cctttcagcg ggccatcatg 180
aatgcgaatg ggcagcgact acatccgtga gtggaatgtg gtgaagtgtg cccgtntcgg 240
ttattccaaa atgctgctgg gngtttatgc ctactttata gggcataaagc agnggaacan 300
ccttatttgg ttccncaggt atggtggatg cccgagaant ttttgaaaaa cccacgttgn 360
gncgattatt tcgggganatt ttccgngnt gttgggggtt gnccccntgg gttttggnaa 420
aaaganccgg gtaaaagggtt                                     440
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<210> 358

<211> 234

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (16)

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<220>

<221> misc feature

<222> (46)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (92)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (162)

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<221> misc feature

<222> (166)

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<220>

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<222> (175)

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<220>

<221> misc feature

<222> (208)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (230)

<223> n equals a,t,g, or c

<400> 358

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tgtgatgaag gagatgggag gccatcacat tntagtcctc tttttgctca aggggggcta 120
taaatttttt gctgacctgc tggattacat caaaggactg antagnaaat agtgnataga 180
tccattcctc atgaactgtg gatTTTTngc agatctgaag agctattgtn atga      234
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<210> 359

<211> 668

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (15)

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<220>

<221> misc feature

<222> (19)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (295)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (512)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (552)

<223> n equals a,t,g, or c

<220>

<221> misc feature

305

&lt;222&gt; (558)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (559)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (579)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (588)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (593)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (659)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (667)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 359

```
ctgactccag tttgntatnn ccatgattac gccaaagctct aatacgactc actatagggg 60
aagctggtac gcctgcaggt accgggtccgg aattcccggg tcgacccacg cgtccggggg 120
gtttgaggta cataagaaaa atgtaagggg tgaattcact tattatgaaa tacaagataa 180
tacagggaag atggaagtgg tgggtcatgg acgactgacc acaatcaact gtgaggaagg 240
agataaaactg aaactcacct gctttgaatt ggcaccgaaa agtgggaata ccgngagtt 300
gagatctgta attcatagtc acatcaaggt catcaagacc aggaaaaaca agaaagacat 360
actcaatcct gattcaagta tggaaacttc accagacttt ttcttctaaa atctggatgt 420
cattgacgat aatgtttatg gagataaggt ctaagtgcct aaaaaaatgt acatatacct 480
ggttgaaata caacactata catcacacc ancatatata ctactgtgtt aatcctatgg 540
aaatggggta tntggagnnc ttttttaatt tttcatagnt tttttttnat aanaatggca 600
tattttggat ctacaacttc tatgatttga aaaaatacct taacccttat cttttttgng 660
aaaaaana 668
```

&lt;210&gt; 360

&lt;211&gt; 401

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<400> 360

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caccattacc agcggcggca atcctccggc cttttccctg acaccggacg gaaagctgac 60
cgctaaaaat gcggatatca gtggcagtgt gaatgcgaac tccgggacgc tcagtaatgt 120
gacgatagct gaaaactgta cgataaacgg tacgctgagg gcggaaaaaa tcgtcgggga 180
cattgtaaaag gcggcgagcg cggcttttcc gcgccagggtg gaaagcagtg tggactggcc 240
gtcagggtacc cgtactgtca ccgtgaccga tgaccatcct tttgatcgcc agatagtggg 300
gcttccgctg acgtttcgcg gaagtaagcg tactgtcagc ggcaggacaa cgtattcgat 360
gtgttatctg aaagtactga tgaacgggtgc ggtgatttat g 401
```

<210> 361

<211> 273

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (156)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (189)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (236)

<223> n equals a,t,g, or c

<400> 361

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accggaacac ggcactgggtc ggcgtgcagg tggactcgga gcagttcggc agccagcagg 60
tgagccgtaa ttatcatctg cgcgggcgta ttctgcagggt gccgtcgaac tataaccgcg 120
agacgcggca atacagcggg atctgggacg gaacgnntaa accggcatac agcaacaaca 180
tggcctggng tctgtgggat atgctgacct atccgcgcta cggcatgggg aaacgncttg 240
gtgcggcgga tgtggataaa tgggcgctgt atg 273
```

<210> 362

<211> 248

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (37)

<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (41)  
<223> n equals a,t,g, or c

<220>  
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<222> (52)  
<223> n equals a,t,g, or c

<220>  
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<222> (74)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (145)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (161)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (185)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (194)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (210)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (218)  
<223> n equals a,t,g, or c

<400> 362  
cgctcngtcgg gcgagcgatg atgcggaagg ttacctngat nttttcaaag gnaagataac 60  
cgaatcccat ctngcaagg agctgctgga aaaagtcgag ctgacggagg ataacgccag 120  
cagactggag gagttttcga aagantggaa ggatgccagt nataagtgga atgccatgtg 180  
ggctntcaaa attnagcaga ccaaagacgn caaacgantt ttattctgct atttagtagt 240

aagatcag

248

&lt;210&gt; 363

&lt;211&gt; 149

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (131)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (137)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (144)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (145)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (147)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 363

tgccggactt tcatactgag gatgactggt ggcgtaacgg ccagaatctc tatctggata 60

atctggaggc gacggggctg tatcagggtgc cgttgctcagc ggcacagccg ggcgatgtgc 120

tgctgtgctg ntttgntca tcannnccg 149

&lt;210&gt; 364

&lt;211&gt; 352

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (4)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (93)

&lt;223&gt; n equals a,t,g, or c



<220>  
<221> misc feature  
<222> (196)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (319)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (322)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (325)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (338)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (340)  
<223> n equals a,t,g, or c

<400> 364  
gcanaaagaa aatggcacag taacagctgc caatgccagt aactgaaatg atggagcagc 60  
tgctctggtt ctcatgacgg cagatgcagc gangaggctc aatgttacac cactggcaag 120  
aatagtagca tttgctgacg ctgctgtaga acctattgat tttccaattg ctccctgtata 180  
tgctgcatct atggtnctta aagatgtggg attgaaaaaa gaagatattg caatgtggga 240  
agtaaatgga agcctttagt ctggttgtag tagcaaacaat taaaaatgtt ggagattgga 300  
tccccaaaaa gtgaatatnc anggnaggag ctgtttcncn ggggacatcc ca 352

<210> 365  
<211> 272  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (37)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature

<222> (42)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (44)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (47)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (80)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (91)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (116)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (132)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (145)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (190)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (226)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (242)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (260)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (261)

<223> n equals a,t,g, or c

<400> 365

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aggaaaaaagc ccggcctcct ggtggggcag tgccggncac ancntgntgc cctgcagagg 60
ggcttggtgcc gctgctggn tgacagcctt ncgaggcttt gctgtctcgg cacggnaggt 120
ctggcaaacc anggacagac caggnacatg ggaccaaagc cggaacctcc tgctcaacgg 180
gaagtcctan cccaccaaag tgcgcctgat ctgggggggc tccctncccc cagtcaagcg 240
gncggcggat gaactggatn nacgccccgg at 272
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<210> 366

<211> 254

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (23)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (192)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (208)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (209)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (236)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (244)

<223> n equals a,t,g, or c

<400> 366

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ggctctacta ggactcacta tanggaaagc tggtagcct gcaggtaccg gtccggaatt 60
cccggtcga cccacgcgc cgttctctg cctagaaggg ataatattat cactcttcgt 120
tataataaca atcaccatct taattaacca cttacatta gccagcataa cccctatcat 180
ccttcttgta tntgcagcct gtgaagcnn actggggctt atccctttta gttatnatct 240
caantacata cgga 254
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<210> 367

<211> 185

<212> DNA

<213> Homo sapiens

<400> 367

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gattggattc gacaacaaaa aagacctgct tatctcgggtg ggcgatttgg ttgatcgtgg 60
tgcagagaac gttgaatgcc tggaattaat cacattcccc tggttcagag ctgtacgtgg 120
aaacctgag caaatgatga ttgatggctt atcagagcgt ggaaacgtta atcactggct 180
gctta 185
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<210> 368

<211> 458

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (27)

<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (170)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (193)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (232)  
<223> n equals a,t,g, or c

<220>  
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<222> (246)  
<223> n equals a,t,g, or c

<220>  
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<222> (250)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (316)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (340)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (395)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (399)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (404)  
<223> n equals a,t,g, or c

<220>

<221> misc feature  
<222> (415)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (433)  
<223> n equals a,t,g, or c

<400> 368  
agnncnatag aaagnacgcc tgcaggnacc ggtccggaat tcccgggtcg acccacgcgt 60  
ccggagttag ccttgaacgc ctggacctgg acctcacagc tgacagccag ccacccgtct 120  
tcaaggtctt cccaggcagt accactgagg actacaacct tattgttatn gaacgtggcg 180  
ctgccgctgc acnaccggcc agccagggac tgcgcctgca ggaacccctg gngccccacc 240  
cctggntggn atggccattg tcaaggagga ggagacggag gctgccattg gagccccctc 300  
tactgccact gagggncctg agaccaaacc tgtgcttatn gctcttgagg agggtcctgg 360  
tgctgagggg tcccggctgg actcactagt ggcanaacna ctcnnggctgg aagtngtagc 420  
tctgagggac tcngccccag tggtggcccg gacctgat 458

<210> 369  
<211> 288  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (15)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (17)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (47)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (56)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (71)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature

<222> (103)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (114)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (225)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (239)

<223> n equals a,t,g, or c

<400> 369

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gcgctggagc tgctngngca ctgcggcgtg tgcagagagc gcctgcnacc cgaganggag 60
ccccgcctgc ngccctgttt gcaactcgcc tgtagtgcct gentagggcc cgcngccccg 120
ccgcccgcga cagctcgggg gacggcgggg cggcgggcga cggcaccgtg gtggactgtc 180
ccgtgtgcaa gcaacagtgc ttctccaaag acatcgtgga gaatnatctc atgcgtgana 240
gtggcagcaa ggctgccacc gacgcccgag atgcgaacca gtgctgca 288
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<210> 370

<211> 292

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (47)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (53)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (60)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (61)

<223> n equals a,t,g, or c

<220>

<221> misc feature  
<222> (101)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (141)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (263)  
<223> n equals a,t,g, or c

<400> 370  
ccatcttttgc attgttcctc atccgcctcc ttgctcgccg cagccgnctc cgnccgcgcgn 60  
ntcctccgcc gccgcggact ccggcagctt tatcgccaga ntccctgaac tctcgctttc 120  
tttttaatcc cctgcatcgg ntcaccggcg tgccccacca tgtcagacgc agccgtagac 180  
accagctccg aaatcaccac caaggactta aaggagaaga aggaagtttt ggaaagaggc 240  
agaaaatgga agagacggcc ctnccttaacg gggaatgcta atttagggaa at 292

<210> 371  
<211> 477  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (35)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (276)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (313)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (342)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (374)  
<223> n equals a,t,g, or c



<220>  
<221> misc feature  
<222> (399)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (410)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (427)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (434)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (447)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (448)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (451)  
<223> n equals a,t,g, or c

<400> 371  
ggcacaggat aattttaagc atttaaatgg aattnatctt tttcactgta ttgatccaaa 60  
tggttccaag cataaaagaa cggacagatc aattttatgt tgtttacgaa aaggagaatc 120  
tggccagtca tggcaagggt taacaaaaga aagggcaaag cttaattggc ttagtgctga 180  
cttcaataat tgggaaagac tgggaagatg attcaaatga agacatgtct aattttgaat 240  
cgtttctctg aggattcaca agacagtgat gatggnaaaa atgccagatc tgggagtaag 300  
ggaatatattgt ccntcacctg ggtttttgag gaaaggaaaa tnaactttct ctggcaaggt 360  
tttcataat ttgngaggaa ttccccgagt ttgtagcnc cttaaagggn gttatgctcg 420  
tatttgnccc actntaacc ctttttnnca nccggtttgt ttttttaaaa gggcttc 477

<210> 372  
<211> 443  
<212> DNA  
<213> Homo sapiens

<220>

<221> misc feature  
<222> (14)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (67)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (74)  
<223> n equals a,t,g, or c

<220>  
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<222> (107)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (116)  
<223> n equals a,t,g, or c

<220>  
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<222> (123)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (171)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (174)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (220)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (222)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature

<222> (293)  
<223> n equals a,t,g, or c

<220>  
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<222> (314)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (329)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (335)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (340)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (351)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (364)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (373)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (407)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (411)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (426)

320

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (430)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 372

```

ggcagagcac tgtnaaacta gaacatgcta aatctgttgc ttccagagcc actgtcctcc 60
agaaganatc ctnaccctt gtaggaatgt ttttgaaact aaatttnatg aacgtnaaat 120
ttncagtggt ttattatgaa cttccttgtc gaagttgaaa ggtgaacaac nctnatattg 180
caaataccgt agagcttcag agtgaagat tctccactgn angttgggca ttcacaaatg 240
ttggatcttt cccaccgttg gatgaagggt tcagaggcat tgcacccaaa atnaccggg 300
tgaacatacc cagnccaaag cccaggggna cattnatcgn ggacaggccc nccagaattt 360
ggcntgttct ttncagttg gtaggtgttg aacttggggg tgaattnatt ncttaaccga 420
attnnccgn ttccttaacc gag 443

```

&lt;210&gt; 373

&lt;211&gt; 464

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (20)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (235)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 373

```

cggatccgca ggcgcacgtn gcgatgttgt cctctacagc catgtattcg gctcctggca 60
gagacttggg gatggaaccg cacagagccg cgggcccttt gcagctgcga ttttcgccct 120
acgttttcaa cggaggtact atactggcaa ttgctggaga agattttgca attgttgctt 180
ctgatactcg attgagtga gggttttcaa ttcatacgcg ggatagcccc aaatnttaca 240
aatatacaga caaaacagtc attggatgca gcggttttca tggagactgt cttacgctga 300
caaagattat tgaagcaaga cttaaagatgt ataagcattc caataataag gccatgacta 360
cgggggcaat tgctgcaatg ctgtctacaa tcctgtattc aaggcgcttc tttccatact 420
atgtttacaa catcatcggg ggacttgatg aagaaggaaa gggg 464

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&lt;210&gt; 374

&lt;211&gt; 369

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (216)

&lt;223&gt; n equals a,t,g, or c

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ctggcaattg ctggagaaga ttttgcaatt gttgcttctg atactcgatt gagtgaaggg 180  
ttttcaattc atacgcggga tagcccaaaa tggtgncnna ntaacagaca aaacagtcac 240  
tggtatgcagc ggttttcatg gagactgtct tacgctgaca aagattattg aagcaagact 300  
aaagatgtat aagcattcca ataataaggc cntgactacg gggggcaatg ctggcangcn 360  
gtinctacan 369

<210> 375

322

<211> 313  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (32)  
 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

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 gtacacaacc gcccaactgc tggcggcaaa tgagcagaaa ttttaagttg atccgctgtt 120  
 tctgogtctc tttttccgtg agagctatcc cttcaccacg gaggaaaagtc tatctctcac 180  
 aaattccggg actggtaaac atggcgctgt acgtttcgcc gattgtttcc ggtgaagggt 240  
 atcccgttnc cctggcggn tccacctntg aatttaaggc cgggataatg tcnaagcccg 300  
 aagcatgnaa gtg 313

<210> 376  
 <211> 375  
 <212> DNA  
 <213> Homo sapiens

<400> 376  
 cggggttccgg tgaccacgaa ggcggcaaa ggcgacggaat ggaggagggtg cctcacgact 60  
 gtccaggggc cgacagcgcc caggcgggca gaggggcttc atgtcaggga tgccccaacc 120  
 agcggctgtg cgcttctgga gcgggggcca ctccggacac ggctatagag gaaatcaaag 180

agaaaatgaa gactgtaaaa cacaaaatct tggattgtc tgggaaaggc ggtggtggga 240  
aaagcacatt cagcgccac cttgcccac gcctagcaga ggatgaaaac acacagattg 300  
ctcttctaga catcgatata tgtgggccat cgattcccaa gataatggga ttggaaggag 360  
agcaggttca ccaga 375

<210> 377

<211> 434

<212> DNA

<213> Homo sapiens

<220>

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<220>

<221> misc feature

<222> (17)

<223> n equals a,t,g, or c

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<222> (22)

<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

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<220>  
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<220>

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<222> (279)

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<220>

<221> misc feature

<222> (301)

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<220>

<221> misc feature

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<220>

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<222> (330)

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<220>

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<221> misc feature

<222> (351)

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<220>

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<222> (370)

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<222> (381)

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<220>

<221> misc feature

<222> (409)

<223> n equals a,t,g, or c

&lt;400&gt; 377

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gacngagana gtncagaagc tgtgcccagg ggggcagntc ccattcctgc tntatngnac 120
tgaagtgcac acagacacca acaagnttgc ngaatttctg nangcagtgc tgtgccctcc 180
caggtacccc aanctggcag ctctgaaccc tnantccaac acagctgngc tgganatatt 240
tgncaaattn tctgcctaca tnnnnanttc aaaccacagna ctcaatgaca atctggagaa 300
nggactcctg aaagccctgn acgttttagn caattantta acatcccccc nctcagaaga 360
agtggatgan accagtgctg nagtgaaggt gtctctcaga agaagtttnt ggatagcacg 420
agctcacctt gggg                                     434
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&lt;210&gt; 378

&lt;211&gt; 506

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (133)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (294)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (367)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (376)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (386)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (389)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (421)

&lt;223&gt; n equals a,t,g, or c

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<223> n equals a,t,g, or c

<220>  
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<222> (443)  
<223> n equals a,t,g, or c

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<222> (472)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (479)  
<223> n equals a,t,g, or c

<220>  
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<222> (492)  
<223> n equals a,t,g, or c

<220>  
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<222> (493)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (496)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (503)  
<223> n equals a,t,g, or c

<400> 378  
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tatgcgactt accgcagcaa aaataaaggg aaagataagc gctcaataaa cctgtctgtt 120  
ttccttaatt ctntgctggc tgataatcat cacctgcagg ttggctccaa ttatttgtat 180  
attcataaaa tcgatggaaa aacttttctc ttaccacaaa caaatgacaa gagtctgggt 240  
cagaagataa atcgctctaa agcttcagtt gaagatatta agaacagcct cgtngatgac 300  
ggaatcattg ggattcccat cttttttgtt tgttgaaggc gacaccattg gtttttgcca 360  
gaactgnttt tcgggncggc cacatncgnt tttgacaggt ttttttaatc ggggaaggga 420  
ntgtccttaa ggcgtggggn gcngttcagt tggggccctg ttgggggggac cnccaaggng 480  
gtgggttatg cnnggntttc atnggc 506

329

<210> 379  
<211> 550  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (6)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (9)  
<223> n equals a,t,g, or c

<400> 379  
gacganacna accctcacta aagggaaaca aagctggagc tccaccgcgg tgcggccgct 60  
ctagaactag tggatcccc gggctgcagg aattcggcac gaggccatcc agactgagga 120  
agacccgga acttaggggc cacgtgagcc acggccacgg ccgcataggc aagcaccgga 180  
agcaccocgg cgcccgcggt aatgctggtg gtctgcatca ccaccggatc aacttcgaca 240  
aataccaccc aggctacttt gggaaagtgt gtatgaagca ttaccactta aagaggaacc 300  
agagcttctg cccaactgtc aaccttgaca aattgtggac tttggtcagt gaacagacac 360  
gggtgaatgc tgctaaaaac aagactgggg ctgctcccat cattgatgtg gtgcatcg 420  
gctactataa agttctggga aagggaaagc tcccaaagca gcctgtcatc gtgaaggcca 480  
aattcttcag cagaagagct gaggagaaga ttaagagtgt tgggggggcc tgtgtcctgg 540  
tggcttgaag 550

<210> 380  
<211> 573  
<212> DNA  
<213> Homo sapiens

<220>  
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<222> (4)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (6)  
<223> n equals a,t,g, or c

<220>  
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<222> (10)  
<223> n equals a,t,g, or c

<220>  
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<222> (160)  
<223> n equals a,t,g, or c

330

&lt;400&gt; 380

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ccgctctaga actagtggat cccccgggct gcaggaattc ggcacgagcg caaagaaggg 120
tggcgagaag aaaaagggcc gttctgccat caacgaaggc taaccgaga atacaccatc 180
aacattcaca agcgcattcca tggagtgggc ttcaagaagc gtgcacctcg ggcactcaaa 240
gagattcggg aatttgccat gaaggagatg ggaactccag atgtgcgcat tgacaccagg 300
ctcaacaaag ctgtctgggc caaaggaata aggaatgtgc cataccgaat ccgtgtgcgg 360
ctgtccagaa aacgtaatga ggatgaagat tcaccaaata agctatatac tttgggtacc 420
tatgtacctg ttaccacttt caaaatttct gtgctaaaca gtgttacagt cgccaagagc 480
ccataaaggg agccctcctg gaagtggatg aggccttggg tctcggctct tcattgcttc 540
ctgagctgca gcagatgcct ttacaaccaa gct 573

```

&lt;210&gt; 381

&lt;211&gt; 531

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (5)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (8)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 381

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gcagnacnaa ccctcactaa agggaacaaa agctggagct ccaccgcggt gcggccgctc 60
tagaactagt ggatcccccg ggctgcagga attcggcacg aggcggcggt ggcggcttgt 120
gcagcaatgg ccaagatcaa ggctcgagat cttcgcggga agaagaagga ggagctgctg 180
aaacagctgg acgacctgaa ggtggagctg tcccagctgc gcgtcgccaa agtgacaggc 240
ggtgcggcct ccaagctctc taagatccga gtcgtccgga aatccattgc ccgtgttctc 300
acagtattta accagactca gaaagaaaac ctcaggaaat tctacaaggg caagaagtac 360
aagcccctgg acctgcggcc taagaagaca cgtgccatgc gccgccggct caacaagcac 420
gaggagaacc tgaagaccaa gaagcagcag cggaaggagc ggctgtaccc gctgcggaag 480
tacgcggtca aggcctgagg ggcgcattgt caataaagca cagtggctga g 531

```

&lt;210&gt; 382

&lt;211&gt; 300

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

<222> (5)  
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<220>  
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<220>  
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<220>  
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<220>  
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<220>  
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<223> n equals a,t,g, or c

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<220>

<221> misc feature

<222> (271)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (292)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (293)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (300)

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<400> 382

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atgaatcctg tggagcatcc ttttggaggt ggcaaccacc agcacatcgg caagccctcc 120  
accatccgca gagatgcccc tgctggccgc aaagtgggtc tcattgctgc nngcnggant 180  
ggangtctcn ggggaaccaa gantgtgcag gagaaagaga actagtgtctg agggcctcaa 240  
taaagtgtgt gtttatgccca aaaaaaaaaa naaaaaaaaa aaaaaaaaaa annaaagagn 300

<210> 383

<211> 475

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (36)

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<220>

<221> misc feature

<222> (146)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (363)

<223> n equals a,t,g, or c

<220>

<221> misc feature



<222> (367)  
<223> n equals a,t,g, or c

<220>  
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<222> (401)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (404)  
<223> n equals a,t,g, or c

<220>  
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<220>  
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<222> (450)  
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gtggcttccg cgaggtttcg gcagtggcat ccggggccgg ggtcgcggcc gtggacgggg 120  
ccggggccga ggccgcggac tcgcgnaggc aaggccgagg ataaggagtg gatgcccgtc 180  
accaagttgg gccgcttggt caaggacatg aagatcaagt ccctggagga gatctatctc 240  
ttctccctgc ccattaagga atcagagatc attgattctt cctgggggct ctctcaagga 300  
tgagttttga agatatgcca tgcagaagca gaccctgccg gccacgcacc agttcaagca 360  
ttnttgnaac gggattaaat gccactcggt tggtttaatg nccnagagtg gcacncatcc 420  
tgggcaaaac tggcaaattt caagtccttn naagtatggg gaaaatggaa cccaa 475

<210> 384  
<211> 127  
<212> DNA  
<213> Homo sapiens

<220>  
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<220>  
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<220>

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<222> (31)

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<220>

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<222> (62)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (71)

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<220>

<221> misc feature

<222> (103)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (124)

<223> n equals a,t,g, or c

<400> 384

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caatntgnag accagattcc taaggctgca naggggacag tgggatctat tttaggaccg 60
angagattaa ncagagacac aggcaattgt atgtcagcag ctngatttaa cccacctaaa 120
aggngcgcg                                     127
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<210> 385

<211> 317

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (30)

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<220>

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<222> (151)

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<220>

<221> misc feature

<222> (187)

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<220>  
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<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (231)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (264)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (308)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (311)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (316)  
<223> n equals a,t,g, or c

<400> 385  
ggcacgaggg atgtgcgacg tgtgcctggn gtagccccga ctcttgtagc gtcggcatct 60  
gagaccagtg agaaacgccc cttcatgtgt gcttaccag gctgcaataa gagatatttt 120  
aagctgtccc acttacagat gcacagcagg naagcacact ggtgagaaac cataccagtg 180  
tgacttnaag gactgtgaac gangttttct cgttcagacc agctcaaaag ncaccaaagg 240  
aggacataca ggtgtgaacc attnccagtg taaaattggt cagcgaaatt ctcccgggtcc 300  
gaccaacnga ngaccna 317

<210> 386  
<211> 433  
<212> DNA  
<213> Homo sapiens

<220>  
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<222> (295)  
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<220>  
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<222> (311)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (359)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (385)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (405)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (407)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (427)  
<223> n equals a,t,g, or c

<400> 386  
tttcaaaagc tatttaggtg acactataga aggtagcctg caggttaccg gtccggaaat 60  
tcccgggtcg acccacgcgt ccgccgagag ccttagccga cggaaactgg acactggaac 120  
cggcagcgcc atgagactcc tccccgctt gctgctgctt ctcttactcg tgttccctgc 180  
cactgtcttg ttccgaggcg gccccagagg cttgttagca gtggcacaag atcttacaga 240  
ggatgaagaa acagtagaag attccataat tgaggatgaa gatgatgaag ccgangtaga 300  
agaagatgaa nccacagatt ttgtagaaga taaagaggaa gaagatgtgt ctggtgaanc 360  
tgaaacttta ccgagtgcag atacnactat actgttttta aaggngnaga ttttccgcca 420  
ataacantgt gaa 433

<210> 387  
<211> 407  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (315)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (356)

337

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (359)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (373)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (376)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (407)

<223> n equals a,t,g, or c

<400> 387

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atttgaagca aacaggcagc gcgcgacaat ggcggctcgt cgtgcagctt tggggccatt 60
ggtgacgggt ctgtacgacg tgcaggcttt caagtgtggg gacttcgtgc tgaagagcgg 120
gctttcctcc cccatctaca tcgatctgcg gggcatcgtg tctcgaccgc gtcttctgag 180
tcagggttgca gatattttat tccaaactgc ccaaaatgca ggcacagtt ttgacaccgt 240
gtgtggagtg ccttatacag ctttgccatt ggctacagtt atctgttcaa ccaatcaaat 300
tccaatgctt attanaagga aagaaacaaa ggattatgga actaagcgtc ttgtanaang 360
aatattaatc canganaaac tgtttaatca ttgaaatgtt gtcccan 407

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<210> 388

<211> 244

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (215)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (221)

<223> n equals a,t,g, or c

<400> 388

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tcaggcggcg catttttatt gctgtgttgc gctgtaattc ttctatttct gatgctgaat 120
caatgatgac tgccatcttt cattaatccc tgaactgttg gtaataacgc ttgaggggtga 180
atgcgaataa taaaaaagga gcctgtagct ccctnatgat nttgcttttc atgttcacg 240

```

ttcc

244

&lt;210&gt; 389

&lt;211&gt; 239

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (21)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (55)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (64)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (71)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (116)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (128)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (163)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (185)

&lt;223&gt; n equals a,t,g, or c

<220>

<221> misc feature

<222> (196)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (202)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (205)

<223> n equals a,t,g, or c

<400> 389

nggactggcg tcagacgtcg nattccggcg cccacggctg gcttaaaccg tggtncaatc 60  
ctgncgcccc ncgtgatgcc agggaagaca gggcgacctg gaagtccaac tacttnctta 120  
agatcatnca acgtattggg atgattatcc taaaatgggt tcnattgggt ggtagcgagt 180  
acganatggt ggggcntcct anagntagta tggcgagcta ggtccccggc taatgttcc 239

<210> 390

<211> 382

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (54)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (69)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (102)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (103)

<223> n equals a,t,g, or c

<220>  
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<222> (108)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (126)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (169)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (192)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (217)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (219)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (221)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (235)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (342)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (345)  
<223> n equals a,t,g, or c



<220>  
<221> misc feature  
<222> (346)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (360)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (374)  
<223> n equals a,t,g, or c

<400> 390  
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cgcgctgcnc gcacactgag gccgcccggg acaaagcccg gnntcggngc gacctttggt 120  
cccggnctca gtgagcgagc gagcgcgag agagggagtg gccaaacttna tcactagggg 180  
ttccttgtag tnaatgatta acccgccatg ctacttngnc nacgtagcca tgggntacca 240  
agctcgagct ctctagactc gacgcgcgta atacgactca ctatagggcg aatttgagct 300  
ccaccgcggt tgcggccgct ctactagagt cgacctcatg gnttncccc gaaacccgcn 360  
aacaccgcgt gacncgccct ta 382

<210> 391  
<211> 375  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (6)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (7)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (48)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (70)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature

<222> (104)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (117)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (138)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (146)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (159)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (208)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (223)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (261)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (269)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (275)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (279)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (299)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (351)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (366)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (370)

<223> n equals a,t,g, or c

<400> 391

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tgcaanngaa tacacactaa ggacaagtgg actcacggtg cgccctcnga ctagtgggtcc 60
cgggtgcagn tgccagggtg gcctgagcga tctacggatg ggcngtatgg agtggangag 120
acgagatgcg ggtgttanag cagggntga ccggagtgn acacatgagt gtcaggtgca 180
ggtagtccga gtcggcgaca tgagcctnga gtagagtcac cantcgatga gatctggagg 240
caactggcga gcaagaccgt ntgggtgcant gtcantcang ctggtgcagg tgagagcant 300
gcaactcgtcg agtggcgaga cagatcaatc tctgttagcg ggtggagggt ncactcgcgc 360
tgtgngggtg cactg 375
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<210> 392

<211> 121

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (56)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (67)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (113)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (118)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (120)  
<223> n equals a,t,g, or c

<400> 392  
gantcatcng agngtgtgga tttgagccgc cgcatttttt aaccctaaat ctcganatgc 60  
atcgtgnttc ctgtccattg gactgtaagg tttatgtagg catcttgga acnatggan 120  
a 121

<210> 393  
<211> 83  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (65)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (66)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (70)  
<223> n equals a,t,g, or c

<220>

<221> misc feature  
<222> (73)  
<223> n equals a,t,g, or c

<400> 393  
ggcagagaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60  
aaaanncccn ggngggggcc ccc 83

<210> 394  
<211> 218  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (13)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (64)  
<223> n equals a,t,g, or c

<400> 394  
gtcggcgagcag aangcgcccc gcacccccgc caggcgcatg tctgcacctc cgcttgccaa 60  
aggncctcgg tcagcgactg gatgctcgcc atcaagggtc agtggaagtt cttcaagagg 120  
aaaggcgccc ccgccccagg cttccgcgcc cagcgctcgc cacgctcagt gcccgtttta 180  
ccaataaact gagegacccc aaaaaaaaaa aaaaaaag 218

<210> 395  
<211> 83  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (11)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (13)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (83)  
<223> n equals a,t,g, or c

<400> 395  
aattcggcac ngnaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

aaaaaaaaaa aaaaaaaaaa aan

83

<210> 396

<211> 70

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (69)

<223> n equals a,t,g, or c

<400> 396

aattcggcac agaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60  
aaaaaaaaana 70

<210> 397

<211> 140

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (50)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (57)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (74)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (93)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (113)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (114)

<223> n equals a,t,g, or c

<220>  
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<222> (115)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (139)  
<223> n equals a,t,g, or c

<400> 397  
aatTTgacca gagaacaaga ataaccCGgc CTCagcgcCG ggTTTTcttn gcctcangat 60  
cgcccccaaa acanataacc aattgtattt atngaaaaat aaatagatac aannnactaa 120  
acatagcaat tcagatctnt 140

<210> 398  
<211> 157  
<212> DNA  
<213> Homo sapiens

<220>  
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<222> (10)  
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<220>  
<221> misc feature  
<222> (65)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (121)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (122)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (123)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (126)  
<223> n equals a,t,g, or c

<220>

<221> misc feature  
<222> (134)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (150)  
<223> n equals a,t,g, or c

<400> 398  
aattcggcan agctcaagca gacggggctc aaggggggtta catttaataa aaggatgaag 60  
atggnaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
nnnccngggg gggnccccc ccccccttn cccctt 157

<210> 399  
<211> 358  
<212> DNA  
<213> Homo sapiens

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<222> (5)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (84)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (204)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (207)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (302)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (305)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature



<222> (308)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (331)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (341)

<223> n equals a,t,g, or c

<400> 399

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ggcanagcgg cagaggcggc tccactctc ggaaccttgt cctgtttttc ccccagctcg 60
gcaagcgcca tatgagcctg gcgncgccaa tagcgaatcc tgttgtgggc tttttggcct 120
attcccgccc ctcagtcttg ccgggatggc accgcccgca taggacttcc agggttgggc 180
tgagtgggag ttgactgct gggncctngta attctcgctt tgggggctgc tccttccagg 240
ctggggacac actggggccc gttgttcggt ctcccgtcct ccgacatctt gtctggaact 300
tncgncctngc agtttccata ggagttggag nctgtgcggc ntaattttgg tggaaaaa 358
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<210> 400

<211> 399

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (27)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (33)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (46)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (70)

<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (83)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (115)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (117)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (169)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (171)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (213)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (216)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (218)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (231)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (239)  
<223> n equals a,t,g, or c

<220>

<221> misc feature  
<222> (245)  
<223> n equals a,t,g, or c

<220>  
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<222> (248)  
<223> n equals a,t,g, or c

<220>  
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<222> (255)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (262)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (269)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (279)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (283)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (292)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (316)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (325)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature

352

&lt;222&gt; (349)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (364)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (382)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 400

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tttttttttt ttttnaaaag ggcacanata canttttacc gtttanacca aaccagaatc 60
aaaacccaan tcagagtatc canaaatcca agccagggtca aaaccaaacc gaaantntca 120
agcaatccaa atcaagtcaa aaacaaaaac caaagtgccg gtacaggcnt nccgtgggtg 180
atcaggccac ccttccactc aaatggagtg ggnaantncc aaagactagt nttaccaant 240
ttcanatntc cggantccaa gngcctgtnc cttcccagng tttagccgct gnattgatcc 300
tctgtggggg cctgcnaaac gccantctgg cgagggtgtc cactggggna attgcctacc 360
cggnagtgtc ctcaggttct gngtcctca agctggcca 399
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&lt;210&gt; 401

&lt;211&gt; 189

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (11)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (162)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (165)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (166)

&lt;223&gt; n equals a,t,g, or c

<220>

<221> misc feature

<222> (187)

<223> n equals a,t,g, or c

<400> 401

```
naattcggca nagcaaacca caccttctct ttcttatgtc tttttactac aaactacaag 60
acaattgttg aaacctgcta tacatgttta ttttaataaa ttgatggcaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa anccnngggg ggggcccccc 180
ccccccntt                                     189
```

<210> 402

<211> 174

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (73)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (103)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (107)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (130)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (132)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (146)

<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (149)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (167)  
<223> n equals a,t,g, or c

<400> 402  
aattcggcan agctgaggca ggagaatcgc ttgaattcgg gaggcagagc tgagatcaca 60  
cctctgacac tcnagcctgg gtgacagagc gagactccgt ctnaggnaag gaaaaaaaaa 120  
aaaaaaaaan cncggggggg gccccngtnc ccaattggcc ctatagnggg tcgt 174

<210> 403  
<211> 263  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (5)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (231)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (236)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (242)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (252)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (260)  
<223> n equals a,t,g, or c

355

&lt;400&gt; 403

```
ggcanagcca acccagcagt ccttcctca gctgcctagg aggaaggac ccagctgggt 60
ctgggaccac aaggaggag actgcacccc actgcctctg ggccctggct gtgggcagag 120
gccaccgtgt gtgtcccgag taaccgtgcc gttgtcgtgt gatgccataa gcgtctgtgc 180
gtggagtgccc caatgaaacc tgtggtcctg cctgggcaaa aaaaaaaaaa naaanaaaaa 240
anaaaagaaaa anaaaaaaaaan aaa 263
```

&lt;210&gt; 404

&lt;211&gt; 478

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (159)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (259)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (427)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 404

```
tcgacccacg cgtcggggg ctgcagcatg ttgctgagga gtgaggaata gttgagcccc 60
aagtcctgaa gaggcggggc agccaggetg acatctgtgt ttcaagtggg gctcgccatg 120
ccggggggttc ataggctact ggctctccaa gtgccagang tgggcagggtg gtggcactga 180
gcccccccaa cactgtgccc tgggtggagaa agcactgacc tgtcatgccc cctcaaacc 240
tcctcttctg acgtgcctnt tgcacccctc ccattaggac aatcagtccc ctcccatctg 300
ggagtcccct tttcttttct accctagcca ttcttggtac ccagccatct gcccaagggg 360
gccccctect ctcccatccc cctgccctcg tgggcagccc ggctggtttt gtaaatgtgg 420
gttggtgnaca gtgatttttt cttgtattta aaaaaggcca gcattgtggt tcattaaa 478
```

&lt;210&gt; 405

&lt;211&gt; 223

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (147)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (158)

&lt;223&gt; n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (172)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (217)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (223)  
<223> n equals a,t,g, or c

<400> 405  
agacagcagg acggtggcca tggaagtcgg aatccgctaa ggagtgtgta acaactcacc 60  
tgccgaatca actagccctg aaaatggatg gcgctggagc gtcggggcca taccggtccg 120  
tcgcccgcag tcgagagtgg acggggancgg cgggggcngc gcgcgcgcgc gncgtgatgg 180  
tgtgcgtcgg agggcggcgg cggcggcggg ggtgtgnggt ccn 223

<210> 406  
<211> 104  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (8)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (37)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (81)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (93)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (103)  
<223> n equals a,t,g, or c



357

<400> 406  
cccacgcntc cgccgacagc agcagcctca ccatgangtt gctgatggtc ctcatgctgg 60  
cggccctctc ccagcactgc nacgcaggct ctngctgccc ctna 104

<210> 407  
<211> 66  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (17)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (21)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (57)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (66)  
<223> n equals a,t,g, or c

<400> 407  
gccctatagt gagtctngta ncaattcact ggccgctcgtt ttacaacgtc gtgacgngga 60  
aaactn 66

<210> 408  
<211> 278  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (6)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (19)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature

<222> (252)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (275)

<223> n equals a,t,g, or c

<400> 408

```
gggcanagca agctcctgna cctcaagtga tccacatgcc ttggttgacc aaattgctgg 60
gattacaggc atgagccaat atgaccagct caaacatctt ctttttaaata gtcagaagca 120
tgtatagtga ttatttctta ttttttcccc cttgatccat ctcaccagat gtttggtgat 180
tttataagaa ttttcaaact accagcttct ggctttgttg aacttgggat ttctgtttca 240
ctaattttct tntcctgtgc ttgtacttac tttgntgg 278
```

<210> 409

<211> 168

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (16)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (38)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (127)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (140)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (143)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (145)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (167)

<223> n equals a,t,g, or c

<400> 409

```
aataaaactc taaaangatc actataaaaa aagcaggnac gcctgcaggt accggtccgg 60
aattcccggg tcgaccacg cgtccgacgg ctgcgagaag acgacagaag ggcacggctg 120
cgagaanacg acagaagggn gcnantgaaa gaaggcggca gaaaggnt 168
```

<210> 410

<211> 415

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (307)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (347)

<223> n equals a,t,g, or c

<400> 410

```
tgaataccta agatttctgt cttgggggttt ttggtgcatg cagttgatta cttcttattt 60
ttcttaccaa ttgtgaatgt tgggtgtgaaa caattaatga agcttttgaa tcatccctat 120
tctgtgtttt atctagtcac ataaatggat taattactaa tttcagttga gaccttctaa 180
ttggttttta ctgaaacatt gagggaacac aaatttatgg gcttcctgat gatgattctt 240
ctaggcatca tgtcctatag tttgtcatcc ctgatgaatg taaaattaca ctgttcacaa 300
agggttngtc tcctttccac tgctattaat catgggtcact ctcccnaaa tattatattt 360
tttctattaa aagaaaaaaa tggaaaaaaa ttacaaggca atggaaacta ttata 415
```

<210> 411

<211> 636

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (383)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (512)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (519)

360

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (544)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (547)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (583)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (599)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (603)

<223> n equals a,t,g, or c

<400> 411

```
gcagatcaga cgtagcgacc cgctgaattt aagcatatta gtcagcggag gagaagaaac 60
taaccaggat tccctcagta acggcgagtg aacagggaag agcccagcgc cgaatccccg 120
ccccgcggcg gggcgcgagg catgtggcgt acggaagacc cgctcccccg cgccgctcgt 180
ggggggccca agtccttctg atcgaggccc agcccgtagg cgggtgtgagg ccggtagcgg 240
ccccgcggcg gccgggcccg ggtcttcccg gagtcggggt gcttgggaat gcagcccaa 300
gcgggtggtg aactccatct aaggctaat ccccttgtaa atttaactgt tagtccaaag 360
aggaaacagct ctttgacac tangaaaaa ccttgtagag agagtaaaaa atttaacacc 420
catagtaggc ctaaaagcag ccaccaatta agaaagcgtt caagctcaac acccactacc 480
taaaaaatcc caaacatata actgaactcc tnacaccna ttggaccaat ctatcaccct 540
atanaanaac taatggtagt ataagtaaca tgaaaacatt ctncctcgca taagcctgng 600
tanattaaaa cacttgaact gaccattaac aggcca 636
```

<210> 412

<211> 182

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (129)

<223> n equals a,t,g, or c

<220>

<221> misc feature  
<222> (166)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (169)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (170)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (172)  
<223> n equals a,t,g, or c

<400> 412  
ccattgattt ttatcaatag tcgtattcat acggatagtc ctggtattgt tccatcacat 60  
tctgaggatg ctcttcgaac tcttcaaatt cttcttccat atatcacctt aaatagtgga 120  
ttgcggtant aaagattgtg cctgtctttt aaccacatca ggctcngann gntctcgtga 180  
ac 182

<210> 413  
<211> 387  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (157)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (253)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (317)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (323)  
<223> n equals a,t,g, or c

<220>

<221> misc feature  
<222> (349)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (351)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (364)  
<223> n equals a,t,g, or c

<400> 413  
tcgacccacg cgtccgcca cgcgtccgcc aagaccaccc tcctttcatt tgctagaagg 60  
actcactaga ctcaggaaaag ctgttaggct cacagttaca gtttattaca gtaaaaggac 120  
agagattaag atcagcaaag ggaggagggtg cacagcnacg ttccacgaca gatgaggcga 180  
cggcttccat ctgccctctc ccagtggagc catataggca gcacctgatt ctcacagcaa 240  
catgtgacaa canccaagaa gtactgcaa tactgccaac cagagcagct tcactcggag 300  
atctttgtgt tccaganttt ttngtttgtc ttggagacag ggtctgggnc ngtttgggca 360  
gacnaagagt acatggtgga gattcac 387

<210> 414  
<211> 276  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (60)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (186)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (195)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (237)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (260)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (266)

<223> n equals a,t,g, or c

<400> 414

```
gcaaagggtcc atactgggta cttgggtttca ttgccaccac ttagtggatg ttcagtttan 60
aaccattttg tctgctccct ctggaagcct tgcgcatagc ttactttgta attgttggag 120
aataactgct gaatttttag ctgttttgag ttgattcgca ccactgcacc acaactcact 180
atgaanacta tttancttat ttattatctt gtgaaaagta taccatgaaa attttgntca 240
tactgtatatt atcaagtatn attaanagca ctagat 276
```

<210> 415

<211> 192

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (78)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (88)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (99)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (145)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (150)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (164)

<223> n equals a,t,g, or c

<220>

<221> misc feature

364

&lt;222&gt; (168)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 415

```
aaaagattgg actaagacac tggccatacc actggacagg gttatgttaa cacctgaaat 60
tgctgggtct tgagagancc caacgcantt ctgggagang gaccacattg gggggtaggt 120
ccacgggctt ggtgatagaa ttatntctcn atcgacttct tgantgcnat atgaactgta 180
acatttgctt ag                                     192
```

&lt;210&gt; 416

&lt;211&gt; 439

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (7)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (9)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (64)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (406)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (417)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (421)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (431)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature



<222> (434)

<223> n equals a,t,g, or c

<400> 416

```
gcgagantnc gacagaaggg tacggctgcg agagacgaca gaagggtacg gctgcgagaa 60
gacnacagaa ggggtacggct gcgagaagac gacagaaggg tacggctgcg agaagacgac 120
agaagggtac ggctgcgaga agacgacaga aggtacggct gcgagaagac gacagaagga 180
tacggctgcg agaagacgac agaagggaga atcttagttc aactttaaat ttgcccacag 240
aaccctctaa atccccttgt aaatttaact gttagtccaa agaggaacag ctctttggac 300
actaggaaaa aaccttgtag agagagtaaa aaatttaaca cccatagtag gcctaaaagc 360
agccaccaat taagaaagcg ttcaaagctc aacacccact acccanaaaa taaaaanaaa 420
naaaaacccg nggnccgct                                     439
```

<210> 417

<211> 155

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (84)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (122)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (123)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (143)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (153)

<223> n equals a,t,g, or c

<400> 417

```
gacatcttnt tggtttttat tttgaaacaa tttttaggct tgttccgggg gtctctgtgc 60
tgccctgtact gtattgacct gttntatagg tgccttttta ttaaaaagaa aattcaaaaa 120
```

annaaaaaaaa aaattaataa aaaaaaaaaa aanca

155

<210> 418

<211> 291

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (285)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (286)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (288)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (289)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (291)

<223> n equals a,t,g, or c

<400> 418

gaaaaaagaa atccatatct taaagaaaca gctttcaagt gcctttctgc agtttttcag 60  
gagcgcaaga tagatttgga ataggaataa gctctagttc ttaacaaccg acactcctac 120  
aagatttaga aaaaagttta caacataatc tagtttacag aaaaatcttg tgctagaata 180  
ctttttaaaa ggtattttga ataccattaa aactgctttt ttttttccag caagtatcca 240  
accaacttgg ttctgcttca ataaatcttt ggaaaaacta atttnnanna n 291

<210> 419

<211> 340

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

367

&lt;222&gt; (315)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 419

Val	Xaa	Asp	Trp	Phe	Leu	Trp	Tyr	Val	Lys	Lys	Cys	Gly	Gly	Thr	Thr
1				5					10					15	

Arg	Ile	Ile	Ser	Thr	Thr	Asn	Gly	Gly	Gln	Glu	Arg	Lys	Phe	Val	Gly
			20				25						30		

Gly	Ser	Gly	Gln	Val	Ser	Glu	Arg	Ile	Met	Asp	Leu	Leu	Gly	Asp	Arg
		35					40					45			

Val	Lys	Leu	Glu	Arg	Pro	Val	Ile	Tyr	Ile	Asp	Gln	Thr	Arg	Glu	Asn
	50					55					60				

Val	Leu	Val	Glu	Thr	Leu	Asn	His	Glu	Met	Tyr	Glu	Ala	Lys	Tyr	Val
65					70				75						80

Ile	Ser	Ala	Ile	Pro	Pro	Thr	Leu	Gly	Met	Lys	Ile	His	Phe	Asn	Pro
			85					90						95	

Pro	Leu	Pro	Met	Met	Arg	Asn	Gln	Met	Ile	Thr	Arg	Val	Pro	Leu	Gly
		100					105						110		

Ser	Val	Ile	Lys	Cys	Ile	Val	Tyr	Tyr	Lys	Glu	Pro	Phe	Trp	Arg	Lys
	115					120						125			

Lys	Asp	Tyr	Cys	Gly	Thr	Met	Ile	Ile	Asp	Gly	Glu	Glu	Ala	Pro	Val
130					135						140				

Ala	Tyr	Thr	Leu	Asp	Asp	Thr	Lys	Pro	Glu	Gly	Asn	Tyr	Ala	Ala	Ile
145				150					155						160

Met	Gly	Phe	Ile	Leu	Ala	His	Lys	Ala	Arg	Lys	Leu	Ala	Arg	Leu	Thr
		165					170						175		

Lys	Glu	Glu	Arg	Leu	Lys	Lys	Leu	Cys	Glu	Leu	Tyr	Ala	Lys	Val	Leu
		180					185					190			

Gly	Ser	Leu	Glu	Ala	Leu	Glu	Pro	Val	His	Tyr	Glu	Glu	Lys	Asn	Trp
	195					200						205			

Cys	Glu	Glu	Gln	Tyr	Ser	Gly	Gly	Cys	Tyr	Thr	Thr	Tyr	Phe	Pro	Pro
210						215					220				

Gly	Ile	Leu	Thr	Gln	Tyr	Gly	Arg	Val	Leu	Arg	Gln	Pro	Val	Asp	Arg
225				230					235					240	

Ile	Tyr	Phe	Ala	Gly	Thr	Glu	Thr	Ala	Thr	His	Trp	Ser	Gly	Tyr	Met
			245					250						255	

368

Glu Gly Ala Val Glu Ala Gly Glu Arg Ala Ala Arg Glu Ile Leu His  
                   260                  265                  270  
 Ala Met Gly Lys Ile Pro Glu Asp Glu Ile Trp Gln Ser Glu Pro Glu  
                   275                  280                  285  
 Ser Val Asp Val Pro Ala Gln Pro Ile Thr Thr Thr Phe Leu Glu Arg  
                   290                  295                  300  
 His Leu Pro Ser Val Pro Gly Leu Leu Arg Xaa Ile Gly Leu Thr Thr  
                   305                  310                  315                  320  
 Ile Phe Ser Ala Thr Ala Leu Gly Phe Leu Ala His Lys Arg Gly Leu  
                   325                  330                  335  
 Leu Val Arg Val  
                   340

&lt;210&gt; 420

&lt;211&gt; 111

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (48)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 420

Thr Arg Asp Leu Val Ser Phe Ile Ser Gly Ile Arg Leu Tyr Asn Leu  
           1                  5                  10                  15  
 Met Leu Ser Val Leu Arg His Lys Arg Gln Asn Val Ala Tyr Phe Arg  
                   20                  25                  30  
 Ile Cys Phe Phe Ile Glu Val Ser Gly Ile Leu Ser Lys Ile Val Xaa  
           35                  40                  45  
 Ser Arg His Cys Ser Leu Cys Ser Ser Gly Thr Ser Cys Pro Leu Leu  
           50                  55                  60  
 Ser Leu Gln Ala Thr Gly Asn Ala Ser Val Leu Val Ser Trp Arg Lys  
           65                  70                  75                  80  
 Ile Thr Trp Gly Glu Gly Thr Ser Cys Gly Lys Ser Lys Cys Arg Tyr  
           85                  90                  95  
 Glu Met Arg Arg Leu Pro Gln Leu Lys Val Asp Lys Ser Ala Leu

369

100

105

110

&lt;210&gt; 421

&lt;211&gt; 61

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 421

Xaa Ile Trp Cys Ile Ile Cys Lys Glu Ser Lys Met Met Ser Phe Pro  
 1 5 10 15

Arg Gly Met Asn Leu Arg Asn Ala Phe Asp Gly Asp Val Ser Val Thr  
 20 25 30

Leu Cys Tyr Ser Gly Ser Ser Asn Asn Ser Lys Ala Asn Tyr Ser Lys  
 35 40 45

Cys Lys Ile Phe Leu Phe Pro Arg Phe Thr Phe Val Trp  
 50 55 60

&lt;210&gt; 422

&lt;211&gt; 51

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 422

Thr His Ala Tyr Cys Ser Asn Leu Ser Phe Arg Leu Tyr Asp Gln Trp  
 1 5 10 15

Arg Ala Trp Met Gln Lys Ser His Lys Thr Arg Asn Gln His Arg Thr  
 20 25 30

Arg Gly Ser Cys Pro Arg Ala Asp Gly Ala Arg Arg Glu Val Leu Pro  
 35 40 45

Asp Lys Leu  
 50

&lt;210&gt; 423

&lt;211&gt; 246

370

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (71)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (101)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (117)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (147)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 423

Thr	Arg	Asn	Asp	Met	Lys	Ala	Asp	Cys	Ile	Leu	Tyr	Tyr	Gly	Phe	Gly
1				5					10					15	

Asp	Ile	Phe	Arg	Ile	Ser	Ser	Met	Val	Val	Met	Glu	Asn	Val	Gly	Gln
			20					25					30		

Gln	Lys	Leu	Tyr	Glu	Met	Val	Ser	Tyr	Cys	Gln	Asn	Ile	Ser	Lys	Cys
	35							40				45			

Arg	Arg	Val	Leu	Met	Ala	Gln	His	Phe	Asp	Glu	Val	Trp	Asn	Ser	Glu
	50					55					60				

Ala	Cys	Asn	Lys	Met	Cys	Xaa	Asn	Cys	Cys	Lys	Asp	Ser	Ala	Phe	Glu
65					70					75				80	

Arg	Lys	Asn	Ile	Thr	Glu	Tyr	Cys	Arg	Asp	Leu	Ile	Lys	Ile	Leu	Lys
			85						90					95	

Gln	Ala	Glu	Gly	Xaa	Gly	Met	Glu	Lys	Leu	Thr	Pro	Ile	Gly	Asn	Trp
		100						105					110		

Ile	Asp	Ser	Trp	Xaa	Gly	Lys	Gly	Ala	Ala	Lys	Leu	Arg	Val	Ala	Gly
	115						120					125			

Val	Val	Ala	Pro	Thr	Leu	Pro	Arg	Glu	Asp	Leu	Glu	Lys	Ile	Ile	Ala
		130				135					140				

371

His Phe Xaa Ile Gln Gln Tyr Leu Lys Glu Asp Tyr Ser Phe Thr Ala  
 145 150 155 160  
 Tyr Ala Thr Ile Ser Tyr Leu Lys Ile Gly Pro Lys Ala Asn Leu Leu  
 165 170 175  
 Asn Asn Glu Ala His Ala Ile Thr Met Gln Val Thr Lys Ser Thr Gln  
 180 185 190  
 Asn Ser Phe Arg Ala Glu Ser Ser Gln Thr Cys His Ser Glu Gln Gly  
 195 200 205  
 Asp Lys Lys Met Glu Glu Lys Asn Ser Gly Asn Phe Gln Lys Lys Ala  
 210 215 220  
 Ala Asn Met Leu Gln Gln Ser Gly Ser Lys Asn Thr Gly Ala Lys Lys  
 225 230 235 240  
 Arg Lys Ile Asp Asp Ala  
 245

&lt;210&gt; 424

&lt;211&gt; 109

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (77)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 424

Asp His Trp Pro Arg Pro Glu Trp Leu Pro Cys Thr Ser Trp Arg Arg  
 1 5 10 15  
 Ala Ser Cys Leu Asn His Val Asn Cys His His Leu Ala Thr Pro Ala  
 20 25 30  
 Pro Ala Ser Ala Leu Pro Pro Phe Pro Pro Ser Trp Ser Gly Gly Tyr  
 35 40 45  
 Arg Ser Leu Gly Pro Thr Leu Ala Pro Leu Ser Pro Ala Ser Val Cys  
 50 55 60  
 Leu Thr Val Phe Pro Pro Leu Pro Gln Leu Arg Cys Xaa Pro Gln Ala  
 65 70 75 80  
 Trp Cys Cys Leu Gly Gly Leu Gly Glu Gly Val Cys Gly Gly Gly Arg  
 85 90 95

372

Arg Val Lys Thr Glu Ala Arg Cys Gln Asn Gly Leu Glu  
                   100                                  105

&lt;210&gt; 425

&lt;211&gt; 57

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (49)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 425

Gly Ser Glu Thr Xaa Lys Tyr Leu Val Glu Asp Lys Arg Leu Gly Leu  
       1                  5                          10                          15

Tyr Thr Trp Leu Cys Thr Asp Leu Leu Ser His Ile Gly Asn His His  
                   20                          25                          30

Thr Leu Gln Gly Ile Ser Phe Ile Cys Lys Met Gln Arg Leu Val Leu  
                   35                          40                          45

Xaa Asn His Thr Asn Phe Phe Val Leu  
           50                          55

&lt;210&gt; 426

&lt;211&gt; 99

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (96)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 426

Phe Gly Thr Ser Gly Asp Gly Gly Gly Ser Lys Met Ala Gln Ala Ile  
       1                  5                          10                          15

Phe Glu Ala Leu Glu Gly Met Asp Asn Gln Thr Val Leu Ala Val Gln



373

20                      25                      30  
 Ser Leu Leu Asp Gly Gln Gly Ala Val Pro Asp Pro Thr Gly Gln Ser  
                     35                      40                      45  
 Val Asn Ala Pro Pro Ala Ile Gln Pro Leu Asp Asp Glu Asp Val Phe  
                     50                      55                      60  
 Leu Cys Gly Lys Cys Lys Lys Gln Phe Asn Ser Leu Pro Ala Phe Met  
                     65                      70                      75                      80  
 Thr His Lys Arg Glu Gln Cys Gln Gly Asn Ala Pro Ala Leu Ala Xaa  
                     85                      90                      95  
 Val Ser Leu

<210> 427  
 <211> 55  
 <212> PRT  
 <213> Homo sapiens

<400> 427  
 Asn Ser Asn Ser Ser Ile Phe Ser Leu Val Ser Val Lys Cys Asp Lys  
                     1                      5                      10                      15  
 Ser Thr Tyr Phe Lys Leu Phe Ser Ala Leu Gly Tyr Ser Ser Asn Lys  
                     20                      25                      30  
 Asn Thr Asn Leu Trp Val Phe Lys Lys Thr Trp Arg Ile Asn Ser Tyr  
                     35                      40                      45  
 Phe Lys Arg Ser Lys Lys Lys  
                     50                      55

<210> 428  
 <211> 54  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (41)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 428  
 His Thr Leu Ser Asn Leu Glu Phe Ala Gln Lys Val Glu Pro Cys Asn

374

1 5 10 15  
Asp His Val Arg Ala Lys Leu Ser Trp Ala Lys Lys Arg Asp Glu Asp  
20 25 30  
Asp Val Pro Thr Val Pro Ser Thr Xaa Gly Glu Glu Arg Leu Tyr Asn  
35 40 45  
Pro Phe Leu Arg Val Ala  
50

<210> 429  
<211> 39  
<212> PRT  
<213> Homo sapiens

<400> 429  
Arg Gln Thr Lys Val Asn Leu Lys Glu Thr Arg Ser Phe Glu Ile Ile  
1 5 10 15  
Val Trp Gly Phe Tyr Lys Ser Asn Tyr Cys His Leu His Pro Asp Ser  
20 25 30  
Phe Lys Leu Leu Ile His Pro  
35

<210> 430  
<211> 133  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (81)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (85)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 430  
Ala Arg Ala Pro Arg Val Pro Pro Ala Pro His Thr Pro Ser Lys Met  
1 5 10 15  
Gly Lys Glu Lys Thr His Ile Asn Ile Val Val Ile Gly His Val Asp  
20 25 30

375

Ser Gly Lys Ser Thr Thr Thr Gly His Leu Ile Tyr Lys Cys Gly Gly  
 35 40 45

Ile Asp Lys Arg Thr Ile Glu Lys Phe Glu Lys Glu Ala Ala Glu Met  
 50 55 60

Gly Lys Gly Ser Phe Lys Tyr Ala Trp Val Leu Asp Lys Leu Lys Ala  
 65 70 75 80

Xaa Val Ser Ala Xaa Ile Thr Ile Asp Ile Ser Leu Trp Lys Phe Glu  
 85 90 95

Thr Thr Lys Tyr Tyr Ile Thr Ile Ile Asp Ala Pro Gly His Arg Asp  
 100 105 110

Phe Ile Lys Asn Met Ile Thr Gly Thr Ser Gln Ala Asp Cys Ala Val  
 115 120 125

Leu Ile Val Ala Ala  
 130

&lt;210&gt; 431

&lt;211&gt; 190

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 431

Leu Cys Trp Ala Arg Pro Leu Pro Ser Gly Pro Val Leu Leu Ala Ala  
 1 5 10 15

Asn Lys Asp Ser Ser Trp Cys Pro Thr Cys Leu Val His Cys Cys Val  
 20 25 30

Asn Pro Gly Gly Ser Gly His Arg Arg Gln Pro Arg Pro Arg Val Gln  
 35 40 45

Glu Lys Cys Ser Leu Glu Ala Arg Thr Thr Ala Ser His Trp Gly Arg  
 50 55 60

Arg Gly Pro Arg Thr Thr Ser Ala Ser Tyr Leu Pro Ala Ser Ala Arg  
 65 70 75 80

Gly Pro Arg Asp Ala Val Leu Phe Gln Pro Pro Ala Leu Gly Arg Gly  
 85 90 95

His Ala Ser Arg Ile Gln Gly Ala Gly Gly Leu Ser Thr Ala Arg Thr  
 100 105 110

376

Cys Leu Leu Ala Ala Ala Ala Val Gly Glu His Gly Gly Cys Gln Arg  
 115 120 125

Leu Leu Trp Lys Val Ala Ala Ser Glu Met Ala Gly Ala Ala Gly Val  
 130 135 140

Arg Leu His Thr Ala Gln Val Ser Ser Gly Arg Leu Ser Trp Gly Gly  
 145 150 155 160

Ser Ser Ser Ala Glu Gly Trp Trp Gly Val Gln Ser Val Ile Leu Gly  
 165 170 175

Ala Val Cys Pro Thr Pro Ala Trp Gly Pro His Phe Arg Arg  
 180 185 190

<210> 432

<211> 310

<212> PRT

<213> Homo sapiens

<400> 432

Gly Pro His Gly Asn Gly Glu Val Arg Trp Pro Leu Pro Pro Pro Pro  
 1 5 10 15

Pro Arg Phe Val Ala Arg Arg Lys Met Ala Asp Leu Glu Glu Gln Leu  
 20 25 30

Ser Asp Glu Glu Lys Val Arg Ile Ala Ala Lys Phe Ile Ile His Ala  
 35 40 45

Pro Pro Gly Glu Phe Asn Glu Val Phe Asn Asp Val Arg Leu Leu Leu  
 50 55 60

Asn Asn Asp Asn Leu Leu Arg Glu Gly Ala Ala His Ala Phe Ala Gln  
 65 70 75 80

Tyr Asn Leu Asp Gln Phe Thr Pro Val Lys Ile Glu Gly Tyr Glu Asp  
 85 90 95

Gln Val Leu Ile Thr Glu His Gly Asp Leu Gly Asn Gly Lys Phe Leu  
 100 105 110

Asp Pro Lys Asn Arg Ile Cys Phe Lys Phe Asp His Leu Arg Lys Glu  
 115 120 125

Ala Thr Asp Pro Arg Pro Cys Glu Val Glu Asn Ala Val Glu Ser Trp  
 130 135 140

Arg Thr Ser Val Glu Thr Ala Leu Arg Ala Tyr Val Lys Glu His Tyr

377

145	150	155	160
Pro Asn Gly Val Cys Thr Val Tyr Gly Lys Lys Ile Asp Gly Gln Gln	165	170	175
Thr Ile Ile Ala Cys Ile Glu Ser His Gln Phe Gln Ala Lys Asn Phe	180	185	190
Trp Asn Gly Arg Trp Arg Ser Glu Trp Lys Phe Thr Ile Thr Pro Ser	195	200	205
Thr Thr Gln Val Val Gly Ile Leu Lys Ile Gln Val His Tyr Tyr Glu	210	215	220
Asp Gly Asn Val Gln Leu Val Ser His Lys Asp Ile Gln Asp Ser Leu	225	230	235
Thr Val Ser Asn Glu Val Gln Thr Ala Lys Glu Phe Ile Lys Ile Val	245	250	255
Glu Ala Ala Glu Asn Glu Tyr Gln Thr Ala Ile Ser Glu Asn Tyr Gln	260	265	270
Thr Met Ser Asp Thr Thr Phe Lys Ala Leu Arg Arg Gln Leu Pro Val	275	280	285
Thr Arg Thr Lys Ile Asp Trp Asn Lys Ile Leu Ser Tyr Lys Ile Gly	290	295	300
Lys Glu Met Gln Asn Ala	305	310	

&lt;210&gt; 433

&lt;211&gt; 289

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (287)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (288)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 433

Gln Ser Cys Thr Ser Gly Ser Ser Lys Pro Asn Ser Pro Ser Ile Ser

378

1	5	10	15
Pro Ser Ile	Leu Ser Asn Thr Glu His Lys Arg Gly	Pro Glu Val Thr	
	20	25	30
Ser Gln Gly	Val Gln Thr Ser Ser Pro Ala Cys Lys	Gln Glu Lys Asp	
	35	40	45
Asp Lys Glu	Glu Lys Lys Asp Ala Ala Glu Gln Val Arg Lys Ser Thr		
	50	55	60
Leu Asn Pro	Asn Ala Lys Glu Phe Asn Pro Arg Ser Phe Ser Gln Pro		
	65	70	75
Lys Pro Ser	Thr Thr Pro Thr Ser Pro Arg Pro Gln Ala Gln Pro Ser		
	85	90	95
Pro Ser Met	Val Gly His Gln Gln Pro Thr Pro Val Tyr Thr Gln Pro		
	100	105	110
Val Cys Phe	Ala Pro Asn Met Met Tyr Pro Val Pro Val Ser Pro Gly		
	115	120	125
Val Gln Pro	Leu Tyr Pro Ile Pro Met Thr Pro Met Pro Val Asn Gln		
	130	135	140
Ala Lys Thr	Tyr Arg Ala Gly Lys Val Pro Asn Met Pro Gln Gln Arg		
	145	150	155
Gln Asp Gln	His His Gln Ser Ala Met Met His Pro Ala Ser Ala Ala		
	165	170	175
Gly Pro Pro	Ile Ala Ala Thr Pro Pro Ala Tyr Ser Thr Gln Tyr Val		
	180	185	190
Ala Tyr Ser	Pro Gln Gln Phe Pro Asn Gln Pro Leu Val Gln His Val		
	195	200	205
Pro His Tyr	Gln Ser Gln His Pro His Val Tyr Ser Pro Val Ile Gln		
	210	215	220
Gly Asn Ala	Arg Met Met Ala Pro Pro Thr His Ala Gln Pro Gly Leu		
	225	230	235
Val Ser Ser	Ser Ala Thr Gln Tyr Gly Ala His Glu Gln Thr His Ala		
	245	250	255
Met Tyr Ala	Cys Pro Lys Leu Pro Tyr Asn Lys Glu Thr Ser Pro Ser		
	260	265	270
Phe Tyr Phe	Ala Ile Ser Thr Gly Ser Leu Ala Gln Gln Tyr Xaa Xaa		

379

275

280

285

Pro

&lt;210&gt; 434

&lt;211&gt; 147

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 434

Lys Val Thr Pro Asp Leu Lys Pro Thr Glu Ala Ser Ser Ser Ala Phe  
 1 5 10 15

Arg Leu Met Pro Ala Leu Gly Val Ser Val Ala Asp Gln Lys Gly Lys  
 20 25 30

Ser Thr Val Ala Ser Ser Glu Ala Lys Pro Ala Ala Thr Ile Arg Ile  
 35 40 45

Val Gln Gly Leu Gly Val Met Pro Pro Lys Ala Gly Gln Thr Ile Thr  
 50 55 60

Val Ala Thr His Ala Lys Gln Gly Ala Ser Val Ala Ser Gly Ser Gly  
 65 70 75 80

Thr Val His Thr Ser Ala Val Ser Leu Pro Ser Met Asn Ala Ala Val  
 85 90 95

Ser Lys Thr Val Ala Val Ala Ser Gly Ala Ala Arg Pro Pro Ser Ala  
 100 105 110

Ser Ala Gln Glu Pro Pro Pro Cys Gly Arg Ser Leu Ser Ala Pro Arg  
 115 120 125

Leu Cys Pro Arg Pro Arg Leu Gly Ser Cys Leu His Gly Ser Gln Phe  
 130 135 140

Pro Ser Leu  
 145

&lt;210&gt; 435

&lt;211&gt; 151

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

380

&lt;221&gt; SITE

&lt;222&gt; (9)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (15)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (79)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 435

Gly	Ser	Gly	Thr	Lys	Asp	Pro	Ser	Xaa	Cys	Asn	Thr	Gln	Thr	Xaa	Ala
1				5					10					15	

His	Thr	His	Thr	Gly	Gly	Glu	Ile	Ser	Leu	Phe	Ser	Met	Ser	Phe	Phe
			20					25					30		

Ser	Trp	Ala	Glu	Thr	Gly	Tyr	Cys	Pro	Gly	Gln	Leu	Pro	Glu	Lys	His
		35					40					45			

Arg	Arg	Glu	Leu	Arg	Ser	Ala	Arg	Pro	Ser	Ser	Leu	Ala	Pro	Gly	Phe
		50				55					60				

Gly	Gly	Pro	Arg	Thr	Ala	Asp	Arg	Gly	Trp	Ser	Trp	Arg	Leu	Xaa	Ser
65					70					75					80

Arg	Ala	Tyr	Thr	Trp	Arg	Asn	Ala	Pro	Pro	Ser	Ser	Pro	Ser	Leu	Gln
				85					90					95	

Thr	Trp	Gly	Trp	Leu	Gly	Pro	Glu	Gly	Cys	Asp	Glu	Glu	Lys	Arg	Ala
		100						105					110		

Ser	Val	Gly	Met	Arg	Gln	Glu	Gly	Ile	Asp	Phe	Asp	Cys	Asp	Leu	Trp
		115					120					125			

Gly	Phe	Leu	Pro	Ala	Leu	Asp	Asn	Pro	Ala	Lys	Asp	Cys	Phe	Phe	Leu
	130					135					140				

Ser	Leu	Ala	Arg	Arg	Gly	Pro
145					150	

&lt;210&gt; 436

&lt;211&gt; 180

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens



381

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (42)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (123)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 436

Ala	Pro	Ala	Ser	Pro	Val	Met	Pro	Pro	Gln	Thr	Gln	Ser	Pro	Gly	Gln
1				5					10					15	

Pro	Ala	Gln	Pro	Ala	Pro	Met	Val	Pro	Leu	His	Gln	Lys	Gln	Ser	Arg
			20					25					30		

Ile	Thr	Pro	Ile	Gln	Lys	Pro	Arg	Gly	Xaa	Asp	Pro	Val	Glu	Ile	Leu
		35					40					45			

Gln	Glu	Arg	Glu	Tyr	Arg	Leu	Gln	Ala	Arg	Ile	Ala	His	Arg	Ile	Gln
	50					55					60				

Glu	Leu	Glu	Asn	Leu	Pro	Gly	Ser	Leu	Ala	Gly	Asp	Leu	Arg	Thr	Lys
65					70					75					80

Ala	Thr	Ile	Glu	Leu	Lys	Ala	Leu	Arg	Leu	Leu	Asn	Phe	Gln	Arg	Gln
				85					90					95	

Leu	Arg	Gln	Glu	Val	Val	Val	Cys	Met	Arg	Arg	Asp	Thr	Ala	Leu	Glu
		100						105					110		

Thr	Ala	Leu	Asn	Ala	Lys	Ala	Tyr	Lys	Arg	Xaa	Ser	Ala	Ser	Pro	Cys
		115					120					125			

Ala	Arg	Pro	Ala	Ser	Leu	Arg	Ser	Trp	Arg	Ser	Ser	Arg	Arg	Ser	Ser
		130				135					140				

Arg	Ser	Ala	Ser	Ala	Gly	Arg	Ser	Thr	Arg	Asn	Thr	Ser	Ile	Ala	Phe
145					150					155				160	

Ser	Ser	Met	Pro	Arg	Ile	Ser	Arg	Asn	Ile	Thr	Asp	Pro	Ser	Gln	Ala
				165					170					175	

Lys	Ser	Arg	Ser
			180

&lt;210&gt; 437

382

<211> 415  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (8)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (94)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (96)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (170)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 437  
 Arg Lys Tyr Leu Val Pro Leu Xaa Lys Lys Leu Tyr Leu Lys Trp Ala  
     1                    5                    10                    15  
 Leu Glu Glu Tyr Leu Asp Glu Phe Asp Pro Cys His Cys Arg Pro Cys  
                     20                    25                    30  
 Gln Asn Gly Gly Leu Ala Thr Val Glu Gly Thr His Cys Leu Cys His  
                     35                    40                    45  
 Cys Lys Pro Tyr Thr Phe Gly Ala Ala Cys Glu Gln Gly Val Leu Val  
                     50                    55                    60  
 Gly Asn Gln Ala Gly Gly Val Asp Gly Gly Trp Ser Cys Trp Ser Ser  
                     65                    70                    75                    80  
 Trp Ser Pro Cys Val Gln Gly Lys Lys Thr Arg Ser Arg Xaa Cys Xaa  
                     85                    90                    95  
 Asn Pro Pro Pro Ser Gly Gly Gly Arg Ser Cys Val Gly Glu Thr Thr  
                     100                    105                    110  
 Glu Ser Thr Gln Cys Glu Asp Glu Glu Leu Glu His Leu Arg Leu Leu  
                     115                    120                    125  
 Glu Pro His Cys Phe Pro Leu Ser Leu Val Pro Thr Glu Phe Cys Pro  
                     130                    135                    140

383

Ser	Pro	Pro	Ala	Leu	Lys	Asp	Gly	Phe	Val	Gln	Asp	Glu	Gly	Thr	Met	145	150	155	160
Phe	Pro	Val	Gly	Lys	Asn	Val	Val	Tyr	Xaa	Cys	Asn	Glu	Gly	Tyr	Ser	165	170	175	
Leu	Ile	Gly	Asn	Pro	Val	Ala	Arg	Cys	Gly	Glu	Asp	Leu	Arg	Trp	Leu	180	185	190	
Val	Gly	Glu	Met	His	Cys	Gln	Lys	Ile	Ala	Cys	Val	Leu	Pro	Val	Leu	195	200	205	
Met	Asp	Gly	Ile	Gln	Ser	His	Pro	Gln	Lys	Pro	Phe	Tyr	Thr	Val	Gly	210	215	220	
Glu	Lys	Val	Thr	Val	Ser	Cys	Ser	Gly	Gly	Met	Ser	Leu	Glu	Gly	Pro	225	230	235	240
Ser	Ala	Phe	Leu	Cys	Gly	Ser	Ser	Leu	Lys	Trp	Ser	Pro	Glu	Met	Lys	245	250	255	
Asn	Ala	Arg	Cys	Val	Gln	Lys	Glu	Asn	Pro	Leu	Thr	Gln	Ala	Val	Pro	260	265	270	
Lys	Cys	Gln	Arg	Trp	Glu	Lys	Leu	Gln	Asn	Ser	Arg	Cys	Val	Cys	Lys	275	280	285	
Met	Pro	Tyr	Glu	Cys	Gly	Pro	Ser	Leu	Asp	Val	Cys	Ala	Gln	Asp	Glu	290	295	300	
Arg	Ser	Lys	Arg	Ile	Leu	Pro	Leu	Thr	Val	Cys	Lys	Met	His	Val	Leu	305	310	315	320
His	Cys	Gln	Gly	Arg	Asn	Tyr	Thr	Leu	Thr	Gly	Arg	Asp	Ser	Cys	Thr	325	330	335	
Leu	Pro	Ala	Ser	Ala	Glu	Lys	Ala	Cys	Gly	Ala	Cys	Pro	Leu	Trp	Gly	340	345	350	
Lys	Cys	Asp	Ala	Glu	Ser	Ser	Lys	Cys	Val	Cys	Arg	Glu	Ala	Ser	Glu	355	360	365	
Cys	Glu	Glu	Glu	Gly	Phe	Ser	Ile	Cys	Val	Glu	Val	Asn	Gly	Lys	Glu	370	375	380	
Gln	Thr	Met	Ser	Glu	Cys	Glu	Ala	Gly	Ala	Leu	Arg	Cys	Arg	Gly	Gln	385	390	395	400
Ser	Ile	Ser	Val	Thr	Ser	Ile	Arg	Pro	Cys	Ala	Ala	Glu	Thr	Gln		405	410	415	

384

<210> 438  
 <211> 285  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (16)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (17)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (18)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 438  
 Leu Ile Arg Leu Thr Ile Gly Lys Ala Gly Ser Leu Gln Tyr Arg Xaa  
   1                  5                  10                  15  
 Xaa Xaa Phe Pro Gly Met Glu Ala Phe Leu Gly Ser Arg Ser Gly Leu  
                   20                  25                  30  
 Trp Ala Gly Gly Pro Ala Pro Gly Gln Phe Tyr Arg Ile Pro Ser Thr  
           35                  40                  45  
 Pro Asp Ser Phe Met Asp Pro Ala Ser Ala Leu Tyr Arg Gly Pro Ile  
   50                  55                  60  
 Thr Arg Thr Gln Asn Pro Met Val Thr Gly Thr Ser Val Leu Gly Val  
   65                  70                  75                  80  
 Lys Phe Glu Gly Gly Val Val Ile Ala Ala Asp Met Leu Gly Ser Tyr  
           85                  90                  95  
 Gly Ser Leu Ala Arg Phe Arg Asn Ile Ser Arg Ile Met Arg Val Asn  
           100                  105                  110  
 Asn Ser Thr Met Leu Gly Ala Ser Gly Asp Tyr Ala Asp Phe Gln Tyr  
           115                  120                  125  
 Leu Lys Gln Val Leu Gly Gln Met Val Ile Asp Glu Glu Leu Leu Gly  
   130                  135                  140

385

Asp Gly His Ser Tyr Ser Pro Arg Ala Ile His Ser Trp Leu Thr Arg  
145 150 155 160

Ala Met Tyr Ser Arg Arg Ser Lys Met Asn Pro Leu Trp Asn Thr Met  
165 170 175

Val Ile Gly Gly Tyr Ala Asp Gly Glu Ser Phe Leu Gly Tyr Val Asp  
180 185 190

Met Leu Gly Val Ala Tyr Glu Ala Pro Ser Leu Ala Thr Gly Tyr Gly  
195 200 205

Ala Tyr Leu Ala Gln Pro Leu Leu Arg Glu Val Leu Glu Lys Gln Pro  
210 215 220

Val Leu Ser Gln Thr Glu Ala Arg Asp Leu Val Glu Arg Cys Met Arg  
225 230 235 240

Val Leu Tyr Tyr Arg Asp Ala Arg Ser Tyr Asn Arg Phe Gln Ile Ala  
245 250 255

Thr Val Thr Glu Lys Gly Val Glu Ile Glu Gly Pro Leu Ser Thr Glu  
260 265 270

Thr Asn Trp Asp Ile Ala His Met Ile Ser Gly Phe Glu  
275 280 285

<210> 439

<211> 185

<212> PRT

<213> Homo sapiens

<400> 439

Asn Ser Ala Ala His Lys Lys Gly Lys Leu Pro Ile Val Asn Glu Asp  
1 5 10 15

Asp Glu Leu Val Ala Ile Ile Ala Arg Thr Asp Leu Lys Lys Asn Arg  
20 25 30

Asp Tyr Pro Leu Ala Ser Lys Asp Ala Lys Lys Gln Leu Leu Cys Gly  
35 40 45

Ala Ala Ile Gly Thr His Glu Asp Asp Lys Tyr Arg Leu Asp Leu Leu  
50 55 60

Ala Gln Ala Gly Val Asp Val Val Val Leu Asp Ser Ser Gln Gly Asn  
65 70 75 80

Ser Ile Phe Gln Ile Asn Met Ile Lys Tyr Ile Lys Asp Lys Tyr Pro

386

	85		90		95
Asn Leu Gln Val Ile Gly Gly Asn Val Val Thr Ala Ala Gln Ala Lys					
	100		105		110
Asn Leu Ile Asp Ala Gly Val Asp Ala Leu Arg Val Gly Met Gly Ser					
	115		120		125
Gly Ser Ile Cys Ile Thr Gln Glu Val Leu Ala Cys Gly Arg Pro Gln					
	130		135		140
Ala Thr Ala Val Tyr Lys Val Ser Glu Tyr Ala Arg Arg Phe Gly Val					
	145		150		155
Pro Val Ile Ala Asp Gly Gly Ile Gln Asn Val Gly His Ile Ala Lys					
	165		170		175
Ala Leu Ala Leu Gly Ala Pro Gln Ser					
	180		185		

&lt;210&gt; 440

&lt;211&gt; 211

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 440

Leu Gln Gly Arg Ser Thr Pro Ile Trp Pro Ala Leu Ala Thr Val Thr					
1		5		10	15
Ser Arg Thr Pro Ala Leu Gly Pro Gln Ala Gly Ile Asp Thr Asn Glu					
	20		25		30
Ile Ala Pro Leu Glu Pro Asp Ala Pro Pro Asp Ala Cys Glu Ala Ser					
	35		40		45
Phe Asp Ala Val Ser Thr Ile Arg Gly Glu Leu Phe Phe Phe Lys Ala					
	50		55		60
Gly Phe Val Trp Arg Leu Arg Gly Gly Gln Leu Gln Pro Gly Tyr Pro					
	65		70		75
Ala Leu Ala Ser Arg His Trp Gln Gly Leu Pro Ser Pro Val Asp Ala					
	85		90		95
Ala Phe Glu Asp Ala Gln Gly His Ile Trp Phe Phe Gln Gly Ala Gln					
	100		105		110
Tyr Trp Val Tyr Asp Gly Glu Lys Pro Val Leu Gly Pro Ala Pro Leu					
	115		120		125

387

Thr Glu Leu Gly Leu Val Arg Phe Pro Val His Ala Ala Leu Val Trp  
 130 135 140

Gly Pro Glu Lys Asn Lys Ile Tyr Phe Phe Arg Gly Arg Asp Tyr Trp  
 145 150 155 160

Arg Phe His Pro Ser Thr Arg Arg Val Asp Ser Pro Val Pro Arg Arg  
 165 170 175

Pro Leu Thr Gly Glu Gly Cys Pro Leu Arg Ser Thr Leu Pro Ser Arg  
 180 185 190

Met Leu Met Ala Met Pro Thr Ser Cys Ala Ala Ala Ser Thr Gly Ser  
 195 200 205

Leu Thr Leu  
 210

<210> 441

<211> 80

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 441

Gly Gly Ala Gly Lys Leu Leu Ser Phe Thr His Ser Ala Pro Trp Ser  
 1 5 10 15

Arg Leu Trp Ser Ser Leu Gly Lys Arg Val Thr Gly Glu Ser Gln Gly  
 20 25 30

Leu Glu Lys Leu Pro Gly Thr Xaa Asp Gly Leu Ala Ala Leu Thr Gln  
 35 40 45

Asp Pro Leu Pro Leu Pro Pro Pro Leu Cys Arg Asn Thr Gly Thr Pro  
 50 55 60

Arg Gly Lys Met Ser Phe Ser Arg Leu Gln Phe Ser Pro Arg Lys Leu  
 65 70 75 80

<210> 442  
 <211> 567  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (205)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (212)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (469)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (503)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (505)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (517)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (535)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (546)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 442  
 Asn Val His Leu Tyr Ile Met Tyr Tyr Met Glu Ala Lys His Ala Val  
     1                    5                    10                    15

Ser Phe Met Thr Cys Thr Gln Asn Val Ala Pro Asp Met Phe Arg Thr



389

	20		25		30	
Ile	Pro	Pro	Glu	Ala	Asn	Ile
	35		40		45	
Met	Met	His	Glu	His	His	Lys
	50		55		60	
Leu	Leu	Gln	Gln	Pro	Lys	Arg
	65		70		75	
Asp	Phe	Tyr	Ser	Leu	Leu	Ser
			85		90	
Val	His	Val	His	Lys	Tyr	Asn
		100			105	
Asp	Leu	Val	Ala	Glu	Ile	Ala
	115				120	
Arg	Ser	Asp	Ala	Arg	Glu	Gly
	130				135	
Leu	Val	Arg	Asp	Arg	Ile	His
	145				150	
Arg	Pro	Pro	Glu	Ser	Arg	Val
			165		170	
Glu	Gly	Thr	Trp	Glu	Pro	Glu
			180			
Ala	Leu	Asp	Trp	Pro	Gly	Val
	195				200	
Val	Ala	Leu	Xaa	Pro	Lys	Asn
	210				215	
His	Val	Trp	Asp	Gly	Asn	Ser
	225				230	
Ile	Gly	Leu	Gly	Pro	Ile	Glu
				245		
Asn	Asn	Ala	Ala	Val	Leu	Gln
				260		
Pro	His	Gly	Leu	Ser	Ile	Asp
	275				280	
Val	Ala	Leu	His	Gln	Val	Phe

390

290	295	300
Pro Val Leu Ile Leu Gly Arg Ser Met Gln Pro Gly Ser Asp Gln Asn		
305	310	315 320
His Phe Cys Gln Pro Thr Asp Val Ala Val Asp Pro Gly Thr Gly Ala		
	325	330 335
Ile Tyr Val Ser Asp Gly Tyr Cys Asn Ser Arg Ile Val Gln Phe Ser		
	340	345 350
Pro Ser Gly Lys Phe Ile Thr Gln Trp Gly Glu Glu Ser Ser Gly Ser		
	355	360 365
Ser Pro Leu Pro Gly Gln Phe Thr Val Pro His Ser Leu Ala Leu Val		
	370	375 380
Pro Leu Leu Gly Gln Leu Cys Val Ala Asp Arg Glu Asn Gly Arg Ile		
385	390	395 400
Gln Cys Phe Lys Thr Asp Thr Lys Glu Phe Val Arg Glu Ile Lys His		
	405	410 415
Ser Ser Phe Gly Arg Asn Val Phe Ala Ile Ser Tyr Ile Pro Gly Leu		
	420	425 430
Leu Phe Ala Val Asn Gly Lys Pro His Phe Gly Asp Gln Glu Pro Val		
	435	440 445
Gln Gly Phe Val Met Asn Phe Ser Asn Gly Glu Ile Ile Asp Ile Phe		
	450	455 460
Lys Pro Val Arg Xaa Leu Leu Asp Met Pro His Asp Ile Val Ala Ser		
465	470	475 480
Glu Asp Gly Thr Val Tyr Ile Gly Arg Cys Ser Tyr Gln His Arg Val		
	485	490 495
Gly Ser Ser Thr Leu Asp Xaa Arg Xaa Leu Gly Thr Ser Val Gln Phe		
	500	505 510
Lys Lys Gly Leu Xaa Ile Glu Val Gln Gly Asn Pro Lys Lys Pro Glu		
	515	520 525
Gly Ile Cys Cys Phe Pro Xaa Thr Thr Leu Arg Val Ile Pro Val Val		
	530	535 540
Gly Xaa Trp Arg Gly His Gly Pro Asn Leu Ile Pro Val Gly Lys Asn		
545	550	555 560
Pro Arg Gly Pro Leu Gly Arg		

391

565

<210> 443  
 <211> 129  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (123)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (127)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (129)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 443  
 Arg Pro Ser Cys Ser Pro Gly Ser Val Ser Ala Ala Ala Val Asn Met  
           1                          5                          10                          15  
 Glu Pro Pro Asp Ala Pro Ala Gln Ala Arg Gly Ala Pro Arg Leu Leu  
                           20                          25                          30  
 Leu Leu Ala Val Leu Leu Ala Ala His Pro Asp Ala Gln Ala Glu Val  
                           35                          40                          45  
 Arg Leu Ser Val Pro Pro Leu Val Glu Val Met Arg Gly Lys Ser Val  
           50                          55                          60  
 Ile Leu Asp Cys Thr Pro Thr Gly Thr His Asp His Tyr Met Leu Glu  
           65                          70                          75                          80  
 Trp Phe Leu Thr Asp Arg Ser Gly Ala Arg Pro Arg Leu Ala Ser Ala  
                           85                          90                          95  
 Glu Met Gln Gly Ser Glu Leu Gln Val Thr Met His Asp Thr Arg Gly  
                           100                          105                          110  
 Arg Ser Pro Pro Tyr Gln Leu Gly Leu Pro Xaa Gly Ala Trp Xaa Leu  
           115                          120                          125

Xaa

392

&lt;210&gt; 444

&lt;211&gt; 131

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 444

Glu Pro Arg Val Glu Arg Glu Thr Pro Gly Gln Pro Phe Ser Ser Ser  
1 5 10 15

Phe Pro Ser Pro Ser Pro Phe Pro Asn Val Ala Ser Met Trp Val Leu  
20 25 30

Gly Thr Trp Glu Lys Pro Leu Leu Cys His Phe Phe Ser Leu Phe Pro  
35 40 45

Ser Ser Pro Pro Thr Val Trp Leu Met Met Ser Ser Gly Val Met Val  
50 55 60

Thr Thr Pro Cys Ser Leu Phe Trp Tyr Phe Pro Cys Gln Phe Pro Leu  
65 70 75 80

Ser Ala Arg Leu Cys Pro Lys Ile Pro Ser Ala Ser Ser Leu His Val  
85 90 95

Ala Glu Gly Pro Gly Leu Pro Gln Val Pro Cys Leu Ser Asn Lys Val  
100 105 110

Glu Thr Ile Lys Pro Gly Lys Lys Lys Lys Gly Gly Arg Ser Lys Gly  
115 120 125

Ser Pro Arg  
130

&lt;210&gt; 445

&lt;211&gt; 405

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 445

Gly Thr Gly Leu Val Pro Ile Arg Gln Ser Thr Lys Phe Asp Ser Ser  
1 5 10 15

Leu Asp Arg Lys Asp Lys Phe Ser Phe Asp Leu Gly Lys Gly Glu Val  
20 25 30

Ile Lys Ala Trp Asp Ile Ala Ile Ala Thr Met Lys Val Gly Glu Val

393

35	40	45
Cys His Ile Thr Cys Lys Pro Glu Tyr Ala Tyr Gly Ser Ala Gly Ser		
50	55	60
Pro Pro Lys Ile Pro Pro Asn Ala Thr Leu Val Phe Glu Val Glu Leu		
65	70	75 80
Phe Glu Phe Lys Gly Glu Asp Leu Thr Glu Glu Glu Asp Gly Gly Ile		
85	90	95
Ile Arg Arg Ile Gln Thr Arg Gly Glu Gly Tyr Ala Lys Pro Asn Glu		
100	105	110
Gly Ala Ile Val Glu Val Ala Leu Glu Gly Tyr Tyr Lys Asp Lys Leu		
115	120	125
Phe Asp Gln Arg Glu Leu Arg Phe Glu Ile Gly Glu Gly Glu Asn Leu		
130	135	140
Asp Leu Pro Tyr Gly Leu Glu Arg Ala Ile Gln Arg Met Glu Lys Gly		
145	150	155 160
Glu His Ser Ile Val Tyr Leu Lys Pro Ser Tyr Ala Phe Gly Ser Val		
165	170	175
Gly Lys Glu Lys Phe Gln Ile Pro Pro Asn Ala Glu Leu Lys Tyr Glu		
180	185	190
Leu His Leu Lys Ser Phe Glu Lys Ala Lys Glu Ser Trp Glu Met Asn		
195	200	205
Ser Glu Glu Lys Leu Glu Gln Ser Thr Ile Val Lys Glu Arg Gly Thr		
210	215	220
Val Tyr Phe Lys Glu Gly Lys Tyr Lys Gln Ala Leu Leu Gln Tyr Lys		
225	230	235 240
Lys Ile Val Ser Trp Leu Glu Tyr Glu Ser Ser Phe Ser Asn Glu Glu		
245	250	255
Ala Gln Lys Ala Gln Ala Leu Arg Leu Ala Ser His Leu Asn Leu Ala		
260	265	270
Met Cys His Leu Lys Leu Gln Ala Phe Ser Ala Ala Ile Glu Ser Cys		
275	280	285
Asn Lys Ala Leu Glu Leu Asp Ser Asn Asn Glu Lys Gly Leu Phe Arg		
290	295	300
Arg Gly Glu Ala His Leu Ala Val Asn Asp Phe Glu Leu Ala Arg Ala		

394

305                      310                      315                      320  
 Asp Phe Gln Lys Val Leu Gln Leu Tyr Pro Asn Asn Lys Ala Ala Lys  
                                  325                      330                      335  
 Thr Gln Leu Ala Val Cys Gln Gln Arg Ile Arg Arg Gln Leu Ala Arg  
                                  340                      345                      350  
 Glu Lys Lys Leu Tyr Ala Asn Met Phe Glu Arg Leu Ala Glu Glu Glu  
                                  355                      360                      365  
 Asn Lys Ala Lys Ala Glu Ala Ser Ser Gly Asp His Pro Thr Asp Thr  
                                  370                      375                      380  
 Glu Met Lys Glu Glu Gln Lys Ser Asn Thr Ala Gly Ser Gln Ser Gln  
 385                                   390                      395                      400  
 Val Glu Thr Glu Ala  
                                  405

&lt;210&gt; 446

&lt;211&gt; 232

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 446

Pro Leu Val Pro Ser Ser Gln Lys Ala Leu Leu Leu Glu Leu Lys Gly  
   1                      5                      10                      15  
 Leu Gln Glu Glu Pro Val Glu Gly Phe Arg Val Thr Leu Val Asp Glu  
                                  20                      25                      30  
 Gly Asp Leu Tyr Asn Trp Glu Val Ala Ile Phe Gly Pro Pro Asn Thr  
                                  35                      40                      45  
 Tyr Tyr Glu Gly Gly Tyr Phe Lys Ala Arg Leu Lys Phe Pro Ile Asp  
                                  50                      55                      60  
 Tyr Pro Tyr Ser Pro Pro Ala Phe Arg Phe Leu Thr Lys Met Trp His  
   65                                   70                      75                      80  
 Pro Asn Ile Tyr Glu Thr Gly Asp Val Cys Ile Ser Ile Leu His Pro  
                                  85                      90                      95  
 Pro Val Asp Asp Pro Gln Ser Gly Glu Leu Pro Ser Glu Arg Trp Asn  
                                  100                      105                      110  
 Pro Thr Gln Asn Val Arg Thr Ile Leu Leu Ser Val Ile Ser Leu Leu  
                                  115                      120                      125

395

Asn Glu Pro Asn Thr Phe Ser Pro Ala Asn Val Asp Ala Ser Val Met  
130 135 140

Tyr Arg Lys Trp Lys Glu Ser Lys Gly Lys Asp Arg Glu Tyr Thr Asp  
145 150 155 160

Ile Ile Arg Lys Gln Val Leu Gly Thr Arg Trp Thr Arg Val Asn Gly  
165 170 175

Val Lys Val Pro Thr Thr Leu Ala Glu Tyr Cys Val Lys Thr Lys Ala  
180 185 190

Pro Ala Pro Asp Glu Gly Ser Asp Leu Phe Tyr Asp Asp Tyr Tyr Glu  
195 200 205

Asp Gly Glu Val Glu Glu Glu Ala Asp Ser Cys Phe Gly Asp Asp Glu  
210 215 220

Asp Asp Ser Gly Thr Glu Glu Ser  
225 230

&lt;210&gt; 447

&lt;211&gt; 356

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (12)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (53)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (191)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (263)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 447

Cys Ser Pro Pro Pro Pro Pro Ala Ala Ala Ala Xaa Ala Ala Ala Ala

396

1	5	10	15
Ala Met Ala Gln Tyr Lys Gly Ala Ala Ser Glu Ala Gly Arg Ala Met	20	25	30
His Leu Met Lys Lys Arg Glu Lys Gln Arg Glu Gln Met Glu Gln Met	35	40	45
Lys Gln Arg Ile Xaa Glu Glu Asn Ile Met Lys Ser Asn Ile Asp Lys	50	55	60
Lys Phe Ser Ala His Tyr Asp Ala Val Glu Ala Glu Leu Lys Ser Ser	65	70	75
Thr Val Gly Leu Val Thr Leu Asn Asp Met Lys Ala Lys Gln Glu Ala	85	90	95
Leu Val Lys Glu Arg Glu Lys Gln Leu Ala Lys Lys Glu Gln Ser Lys	100	105	110
Glu Leu Gln Met Lys Leu Glu Lys Leu Arg Glu Lys Glu Arg Lys Lys	115	120	125
Glu Ala Lys Arg Lys Ile Ser Ser Leu Ser Phe Thr Leu Glu Glu Glu	130	135	140
Glu Glu Gly Gly Glu Glu Glu Glu Ala Ala Met Tyr Glu Glu Glu	145	150	155
Met Glu Arg Glu Glu Ile Thr Thr Lys Lys Arg Lys Leu Gly Lys Asn	165	170	175
Pro Asp Val Asp Thr Ser Phe Leu Pro Asp Arg Asp Arg Glu Xaa Glu	180	185	190
Glu Asn Arg Leu Arg Glu Glu Leu Arg Gln Glu Trp Glu Ala Lys Gln	195	200	205
Glu Lys Ile Lys Ser Glu Glu Ile Glu Ile Thr Phe Ser Tyr Trp Asp	210	215	220
Gly Ser Gly His Arg Arg Thr Val Lys Met Arg Lys Gly Asn Thr Met	225	230	235
Gln Gln Phe Leu Gln Lys Ala Leu Glu Ile Leu Arg Lys Asp Phe Ser	245	250	255
Glu Leu Arg Ser Ala Gly Xaa Glu Gln Leu Met Tyr Ile Lys Glu Asp	260	265	270
Leu Ile Ile Pro His His His Ser Phe Tyr Asp Phe Ile Val Thr Lys			



397

275                      280                      285  
 Ala Arg Gly Lys Ser Gly Pro Leu Phe Asn Phe Asp Val His Asp Asp  
     290                      295                      300  
 Val Arg Leu Leu Ser Asp Ala Thr Val Glu Lys Asp Glu Ser His Ala  
 305                      310                      315                      320  
 Gly Lys Val Val Leu Arg Ser Trp Tyr Glu Lys Asn Lys His Ile Phe  
                     325                      330                      335  
 Pro Ala Ser Arg Trp Glu Pro Tyr Asp Pro Glu Lys Lys Trp Asp Lys  
                     340                      345                      350  
 Tyr Thr Ile Arg  
     355

<210> 448  
 <211> 88  
 <212> PRT  
 <213> Homo sapiens

<400> 448  
 Lys Thr His Lys Met Cys Asp Ala Phe Val Gly Thr Trp Lys Leu Val  
     1                      5                      10                      15  
 Ser Ser Glu Asn Phe Asp Asp Tyr Met Lys Glu Val Gly Val Gly Phe  
                     20                      25                      30  
 Ala Thr Arg Lys Val Ala Gly Met Ala Lys Pro Asn Met Ile Ile Ser  
                     35                      40                      45  
 Val Asn Gly Asp Val Ile Thr Ile Lys Ser Glu Ser Thr Phe Lys Asn  
     50                      55                      60  
 Thr Glu Ile Ser Phe Ile Leu Gly Gln Glu Phe Asp Glu Ala Leu Gln  
     65                      70                      75                      80  
 Met Thr Gly Lys Ser Arg Ala Pro  
                     85

<210> 449  
 <211> 171  
 <212> PRT  
 <213> Homo sapiens

<220>

398

&lt;221&gt; SITE

&lt;222&gt; (72)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (132)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 449

Leu Ile Leu Val Leu Met Phe Val Val Trp Met Lys Arg Arg Asp Lys  
 1 5 10 15

Glu Arg Gln Ala Lys Gln Leu Leu Ile Asp Pro Glu Asp Asp Val Arg  
 20 25 30

Asp Asn Ile Leu Lys Tyr Asp Glu Glu Gly Gly Gly Glu Glu Asp Gln  
 35 40 45

Asp Tyr Asp Leu Ser Gln Leu Gln Gln Pro Asp Thr Val Glu Pro Asp  
 50 55 60

Ala Ile Lys Pro Val Gly Ile Xaa Arg Met Asp Glu Arg Pro Ile His  
 65 70 75 80

Ala Glu Pro Gln Tyr Pro Val Arg Ser Ala Ala Pro His Pro Gly Asp  
 85 90 95

Ile Gly Asp Phe Ile Asn Glu Gly Leu Lys Ala Ala Asp Asn Asp Pro  
 100 105 110

Thr Ala Pro Pro Tyr Asp Ser Leu Leu Val Phe Asp Tyr Glu Gly Ser  
 115 120 125

Gly Ser Thr Xaa Gly Ser Leu Ser Ser Leu Asn Ser Ser Ser Gly  
 130 135 140

Gly Glu Gln Asp Tyr Asp Tyr Leu Asn Asp Trp Gly Pro Arg Phe Lys  
 145 150 155 160

Lys Leu Ala Asp Met Tyr Gly Gly Gly Asp Asp  
 165 170

&lt;210&gt; 450

&lt;211&gt; 34

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 450

399

Lys Val Lys Ala Cys Cys Lys Asp Ile Phe Phe Leu Leu Leu Glu Gly  
 1 5 10 15

Asn Thr Lys Arg Lys Ile Ser Phe Phe His Gly Ala Phe Asp Asn Phe  
 20 25 30

Ser Leu

<210> 451

<211> 148

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 451

Arg Thr Leu His Pro Ala Thr Gly Pro Arg Ala Arg Pro Pro Arg Gly  
 1 5 10 15

Trp Arg Arg Arg Leu Cys Ala Gln Gly Pro Ala Pro Asp Trp Asp Pro  
 20 25 30

Gly Val Pro Pro Gly Leu Ala Ser Cys Gly Xaa Thr Val Trp Leu His  
 35 40 45

Phe Ser Asp Pro Ser Leu Gly Arg Lys Val Lys Glu Thr Gly Pro Ala  
 50 55 60

Ser Ala Phe Gly Leu Trp Phe Leu Asp Arg Val Leu Ser Pro Ser Pro  
 65 70 75 80

Pro Ser Ser Pro Asn Leu Ser His Xaa Arg Pro Leu Pro Ala Ala Pro  
 85 90 95

Ser Leu Leu Gly Ile Gly Ser Pro Glu Pro Pro Ser Pro Glu Pro Pro  
 100 105 110

Thr Pro Leu Pro Gly Pro Cys Gly Cys Trp Ala Ser His Leu Lys Glu  
 115 120 125

400

Gly Lys Val Val Gln Pro Glu Pro Val Glu Gln Cys Pro Val Trp Pro  
 130 135 140

Pro Lys Pro Lys  
 145

&lt;210&gt; 452

&lt;211&gt; 83

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (19)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (28)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (64)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (77)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (79)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 452

Asp Ser His Arg Pro Arg Ala Met Arg Ala Leu Trp Val Leu Gly Leu  
 1 5 10 15

Ser Cys Xaa Leu Leu Thr Phe Gly Ser Val Arg Xaa Asp Asp Glu Val  
 20 25 30

Asp Val Asp Gly Thr Val Glu Glu Asp Leu Gly Lys Ser Arg Glu Gly  
 35 40 45

Ser Arg Thr Asp Asp Glu Val Val Gln Arg Glu Glu Glu Ala Ile Xaa  
 50 55 60

401

Val Gly Trp Ile Lys Cys Ile Pro Asn Lys Arg Thr Xaa Glu Xaa Lys  
 65 70 75 80

Ser Arg Lys

<210> 453

<211> 240

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (234)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 453

Gly Trp Leu Pro Cys Gly Ser Ser Val Val Pro Ala Thr Pro Gly Ser  
 1 5 10 15

Pro Pro Ser Arg Phe Trp Leu Leu Pro Ala Met Ala Leu Arg Val Leu  
 20 25 30

Leu Leu Thr Ala Leu Thr Leu Cys His Gly Phe Asn Leu Asp Thr Glu  
 35 40 45

Asn Ala Met Thr Phe Gln Glu Asn Ala Arg Gly Phe Gly Gln Ser Val  
 50 55 60

Val Gln Leu Gln Gly Ser Arg Val Val Val Gly Ala Pro Gln Glu Ile  
 65 70 75 80

Val Ala Ala Asn Gln Arg Gly Ser Leu Tyr Gln Cys Asp Tyr Ser Thr  
 85 90 95

Gly Ser Cys Glu Pro Ile His Leu Gln Val Pro Val Glu Ala Val Asn  
 100 105 110

Met Ser Leu Gly Leu Ser Leu Ala Ala Thr Thr Ser Pro Pro Gln Leu  
 115 120 125

Leu Ala Cys Gly Pro Thr Val His Gln Thr Cys Ser Glu Asn Thr Tyr  
 130 135 140

Val Lys Gly Leu Cys Phe Leu Phe Gly Ser Asn Leu Arg Gln Gln Pro  
 145 150 155 160

Gln Lys Phe Pro Glu Ala Leu Arg Gly Cys Pro Gln Glu Asp Ser Asp  
 165 170 175

402

Ile	Ala	Phe	Leu	Ile	Asp	Gly	Ser	Gly	Ser	Ile	Ile	Pro	His	Asp	Phe
			180					185					190		
Arg	Arg	Met	Lys	Glu	Phe	Val	Ser	Thr	Val	Met	Glu	Gln	Leu	Lys	Lys
			195					200				205			
Ser	Lys	Thr	Leu	Phe	Ser	Leu	Met	Gln	Tyr	Ser	Glu	Glu	Phe	Arg	Ile
			210				215					220			
His	Phe	Thr	Ser	Lys	Ser	Ser	Arg	Thr	Xaa	Leu	Thr	Gln	Asp	His	Trp
225					230					235					240

&lt;210&gt; 454

&lt;211&gt; 244

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (206)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (227)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (229)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (239)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 454

Lys	Trp	Cys	Ser	Trp	Thr	Leu	Leu	Lys	Ile	Trp	Glu	Val	Thr	Cys	Thr
1					5				10					15	

Trp	Lys	Leu	Pro	Thr	Leu	Ala	Lys	Phe	Ser	Pro	Tyr	Leu	Gly	Gln	Met
			20					25					30		

Ile	Asn	Leu	Arg	Arg	Leu	Leu	Leu	Ser	His	Ile	His	Ala	Ser	Ser	Tyr
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

403

35	40	45
Ile Ser Pro Glu Lys Glu Glu Gln Tyr Ile Ala Gln Phe Thr Ser Gln		
50	55	60
Phe Leu Ser Leu Gln Cys Leu Gln Leu Leu Tyr Val Asp Ser Leu Phe		
65	70	75 80
Phe Leu Arg Gly Arg Leu Asp Gln Leu Leu Arg His Val Met Asn Pro		
	85	90 95
Leu Glu Thr Leu Ser Ile Thr Asn Cys Arg Leu Ser Glu Gly Asp Val		
	100	105 110
Met His Leu Ser Gln Ser Pro Ser Val Ser Gln Leu Ser Val Leu Ser		
	115	120 125
Leu Ser Gly Val Met Leu Thr Asp Val Ser Pro Glu Pro Leu Gln Ala		
	130	135 140
Leu Leu Glu Arg Ala Ser Ala Thr Leu Gln Asp Leu Val Phe Asp Glu		
145	150	155 160
Cys Gly Ile Thr Asp Asp Gln Leu Leu Ala Leu Leu Pro Ser Leu Ser		
	165	170 175
His Cys Ser Gln Leu Thr Thr Leu Ser Phe Tyr Gly Asn Ser Ile Ser		
	180	185 190
Ile Ser Ala Leu Gln Ser Leu Leu Gln His Leu Ile Gly Xaa Ser Asn		
	195	200 205
Leu Thr His Val Leu Tyr Pro Val Pro Leu Glu Ser Tyr Glu Asp Ile		
	210	215 220
His Gly Xaa Leu Xaa Leu Glu Arg Leu Leu Ser Ala Cys Gln Xaa Gln		
225	230	235 240
Gly Val Ala Val		

&lt;210&gt; 455

&lt;211&gt; 195

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 455

His Glu Gly Thr Gln Ser Phe Val Phe Gln Arg Glu Glu Ile Ala Gln
1 5 10 15

404

Leu Ala Arg Gln Tyr Ala Gly Leu Asp His Glu Leu Ala Phe Ser Arg  
                   20                                  25                                  30  
 Leu Ile Val Glu Leu Arg Arg Leu His Pro Gly His Val Leu Pro Asp  
                   35                                  40                                  45  
 Glu Glu Leu Gln Trp Val Phe Val Asn Ala Gly Gly Trp Met Gly Ala  
                   50                                  55                                  60  
 Met Cys Leu Leu His Ala Ser Leu Ser Glu Tyr Val Leu Leu Phe Gly  
                   65                                  70                                  75                                  80  
 Thr Ala Leu Gly Ser Arg Gly His Ser Gly Arg Tyr Trp Ala Glu Ile  
                                   85                                  90                                  95  
 Ser Asp Thr Ile Ile Ser Gly Thr Phe His Gln Trp Arg Glu Gly Thr  
                   100                                  105                                  110  
 Thr Lys Ser Glu Val Phe Tyr Pro Gly Glu Thr Val Val His Gly Pro  
                   115                                  120                                  125  
 Gly Glu Ala Thr Ala Val Glu Trp Gly Pro Asn Thr Trp Met Val Glu  
                   130                                  135                                  140  
 Tyr Gly Arg Gly Val Ile Pro Ser Thr Leu Ala Phe Ala Leu Ala Asp  
                   145                                  150                                  155                                  160  
 Thr Val Phe Ser Thr Gln Asp Phe Leu Thr Leu Phe Tyr Thr Leu Arg  
                                   165                                  170                                  175  
 Ser Tyr Ala Arg Gly Leu Arg Leu Glu Leu Thr Thr Tyr Leu Phe Gly  
                   180                                  185                                  190  
 Gln Asp Pro  
                   195

&lt;210&gt; 456

&lt;211&gt; 36

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 456

Leu Val Thr Leu Leu His Ala Met Gln Ala Arg Asp Lys Thr Leu Gly  
           1                                  5                                  10                                  15  
 Leu Ala Thr Leu Cys Ile Gly Gly Gly Gln Gly Ile Ala Met Val Ile  
                   20                                  25                                  30



405

Glu Arg Leu Asn  
35

<210> 457  
<211> 152  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (86)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (114)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 457  
Val Thr Ala Ala Ser Val Arg Ala Leu Gln Val Thr Val Ala Gly  
1 5 10 15  
Leu Leu Leu Val Phe Phe Leu Phe Gly Ala Pro Leu Asp Ser Leu Pro  
20 25 30  
Ser Met Lys Ala Leu Ser Pro Val Arg Gly Cys Tyr Glu Ala Val Cys  
35 40 45  
Cys Leu Ser Glu Arg Ser Leu Ala Ile Ala Arg Gly Arg Gly Lys Gly  
50 55 60  
Pro Ala Ala Glu Glu Pro Leu Ser Leu Leu Asp Asp Met Asn His Cys  
65 70 75 80  
Tyr Ser Arg Leu Arg Xaa Leu Val Pro Gly Val Pro Arg Gly Thr Gln  
85 90 95  
Leu Ser Gln Val Glu Ile Leu Gln Arg Val Ile Asp Tyr Ile Leu Asp  
100 105 110  
Leu Xaa Val Val Leu Ala Glu Pro Ala Pro Gly Pro Pro Asp Gly Pro  
115 120 125  
His Leu Pro Ile Gln Thr Ala Glu Leu Ala Pro Glu Leu Val Ile Ser  
130 135 140  
Asn Asp Lys Arg Ser Phe Cys His  
145 150

406

<210> 458  
<211> 31  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (17)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (25)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (31)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 458  
Leu Leu Asn Asn Phe Ile Phe Leu Glu Thr His Tyr Leu Trp Ala Cys  
1 5 10 15  
Xaa Thr Trp Thr Ile Trp Pro Asn Xaa Leu Asp Lys Lys Gly Xaa  
20 25 30

<210> 459  
<211> 157  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (28)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (72)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (124)  
<223> Xaa equals any of the naturally occurring L-amino acids

407

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (130)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 459

Asp	Pro	Arg	Val	Arg	Glu	Thr	Thr	Val	Lys	Ala	Arg	Ala	Arg	Ser	Gln
1				5					10					15	

His	Ala	Gly	Gly	Pro	Glu	Leu	Gly	Leu	Ser	Gln	Xaa	Tyr	Val	Thr	Pro
			20					25						30	

Arg	Arg	Pro	Phe	Glu	Lys	Ser	Arg	Leu	Asp	Gln	Glu	Leu	Lys	Leu	Ile
		35					40					45			

Gly	Glu	Tyr	Gly	Leu	Arg	Asn	Lys	Arg	Glu	Val	Trp	Arg	Val	Lys	Phe
	50					55					60				

Thr	Leu	Ala	Lys	Ile	Arg	Lys	Xaa	Ala	Arg	Glu	Leu	Leu	Thr	Leu	Asp
65					70					75					80

Glu	Lys	Asp	Pro	Arg	Arg	Leu	Phe	Glu	Gly	Asn	Ala	Leu	Leu	Arg	Arg
				85					90					95	

Leu	Val	Arg	Ile	Gly	Val	Leu	Asp	Glu	Gly	Lys	Met	Lys	Leu	Asp	Tyr
			100					105					110		

Ile	Leu	Gly	Leu	Lys	Met	Arg	Ile	Leu	Gly	Glu	Xaa	Ser	Ala	Asp	Pro
		115					120					125			

Gly	Xaa	Ser	Ser	Trp	Gly	Trp	Pro	Ile	His	Pro	Pro	Cys	Pro	Val	Leu
	130					135					140				

Ile	Arg	Gln	Ala	Thr	Gln	Val	Arg	Lys	Gln	Val	Val	Asn
145					150					155		

&lt;210&gt; 460

&lt;211&gt; 136

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (119)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (130)

408

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (135)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 460

Ile Trp Ala Pro Phe Pro His His Gln Gly Ser Gly Ser Gln Val Ser  
1 5 10 15

Ser Tyr Gly Thr Gly Ala Leu Lys Ser His Ile Met Ala Ala Lys Ala  
20 25 30

Val Ala Asn Thr Met Arg Thr Ser Leu Gly Pro Asn Gly Leu Asp Lys  
35 40 45

Met Met Val Asp Lys Asp Gly Asp Val Thr Val Thr Asn Asp Gly Ala  
50 55 60

Thr Ile Leu Ser Met Met Asp Val Asp His Gln Ile Ala Lys Leu Met  
65 70 75 80

Val Glu Leu Ser Lys Ser Gln Asp Asp Glu Ile Gly Asp Gly Asp His  
85 90 95

Gly Gly Gly Cys Pro Gly Arg Arg Pro Ala Gly Arg Arg Pro Ser Ser  
100 105 110

Cys Trp Thr Ala Ala Phe Xaa Arg Ser Gly Ser Pro Thr Val Thr Ser  
115 120 125

Arg Xaa Pro Ala Leu Ala Xaa Glu  
130 135

<210> 461

<211> 390

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

409

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (375)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (382)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (383)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (386)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (387)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 461

Cys	Gly	Asn	Trp	Trp	Val	Pro	Arg	Ala	Gly	Xaa	Asn	Trp	Xaa	Arg	Gly
1				5					10					15	

Ser	Arg	Phe	Leu	Phe	Val	Asp	Arg	Cys	Asp	Arg	His	Leu	Thr	Met	Gln
			20					25					30		

Ile	Phe	Val	Lys	Thr	Leu	Thr	Gly	Lys	Thr	Ile	Thr	Leu	Glu	Val	Glu
		35					40					45			

Pro	Ser	Asp	Thr	Ile	Glu	Asn	Val	Lys	Ala	Lys	Ile	Gln	Asp	Lys	Glu
	50					55					60				

Gly	Ile	Pro	Pro	Asp	Gln	Gln	Arg	Leu	Ile	Phe	Ala	Gly	Lys	Gln	Leu
65					70					75				80	

Glu	Asp	Gly	Arg	Thr	Leu	Ser	Asp	Tyr	Asn	Ile	Gln	Lys	Glu	Ser	Thr
				85					90					95	

Leu	His	Leu	Val	Leu	Arg	Leu	Arg	Gly	Gly	Met	Gln	Ile	Phe	Val	Lys
		100						105					110		

Thr	Leu	Thr	Gly	Lys	Thr	Ile	Thr	Leu	Glu	Val	Glu	Pro	Ser	Asp	Thr
		115					120					125			

410

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Ile Glu Asn Val Lys Ala Lys Ile Gln Asp Lys Glu Gly Ile Pro Pro
  130                      135                      140

Asp Gln Gln Arg Leu Ile Phe Ala Gly Lys Gln Leu Glu Asp Gly Arg
  145                      150                      155                      160

Thr Leu Ser Asp Tyr Asn Ile Gln Lys Glu Ser Thr Leu His Leu Val
  165                      170                      175

Leu Arg Leu Arg Gly Gly Met Gln Ile Phe Val Lys Thr Leu Thr Gly
  180                      185                      190

Lys Thr Ile Thr Leu Glu Val Glu Pro Ser Asp Thr Ile Glu Asn Val
  195                      200                      205

Lys Ala Lys Ile Gln Asp Lys Glu Gly Ile Pro Pro Asp Gln Gln Arg
  210                      215                      220

Leu Ile Phe Ala Gly Lys Gln Leu Glu Asp Gly Arg Thr Leu Ser Asp
  225                      230                      235                      240

Tyr Asn Ile Gln Lys Glu Ser Thr Leu His Leu Val Leu Arg Leu Arg
  245                      250                      255

Gly Gly Met Gln Ile Phe Val Lys Thr Leu Thr Gly Lys Thr Ile Thr
  260                      265                      270

Leu Glu Val Glu Pro Ser Asp Thr Ile Glu Asn Val Lys Ala Lys Ile
  275                      280                      285

Gln Asp Lys Glu Gly Ile Pro Pro Asp Gln Gln Arg Leu Ile Phe Ala
  290                      295                      300

Gly Lys Gln Leu Glu Asp Gly Arg Thr Leu Ser Asp Tyr Asn Ile Gln
  305                      310                      315                      320

Lys Glu Ser Thr Leu His Leu Val Leu Arg Leu Arg Gly Gly Met Gln
  325                      330                      335

Ile Phe Val Lys Thr Leu Thr Gly Lys Thr Ile Thr Leu Glu Val Glu
  340                      345                      350

Pro Ser Asp Thr Ile Glu Asn Val Lys Ala Arg Ser Arg Gln Gly Arg
  355                      360                      365

His Pro Pro Asp Gln Gln Xaa Leu Ile Leu Leu Gly Lys Xaa Xaa Lys
  370                      375                      380

Trp Xaa Xaa Pro Phe Asp
  385                      390

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411

<210> 462  
 <211> 171  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (74)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (135)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (142)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (155)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 462  
 Cys Ser Thr Val Arg Ile Pro Gly Ser Thr His Ala Ser Gly Leu Ser  
     1                    5                    10                    15  
 Arg Arg Ala Ser Pro Val Tyr Leu Ala Ser Met Ser Gly Arg Gly Lys  
           20                    25                    30  
 Thr Gly Gly Lys Ala Arg Ala Lys Ala Lys Ser Arg Ser Ser Arg Ala  
           35                    40                    45  
 Gly Leu Gln Phe Pro Val Gly Arg Val His Arg Leu Leu Arg Lys Gly  
           50                    55                    60  
 His Tyr Ala Glu Arg Val Gly Ala Gly Xaa Pro Val Tyr Leu Ala Ala  
           65                    70                    75                    80  
 Val Leu Glu Tyr Leu Thr Ala Glu Ile Leu Glu Leu Ala Gly Asn Ala  
                     85                    90                    95  
 Ala Arg Asp Asn Lys Lys Thr Arg Ile Ile Pro Arg His Leu Gln Leu  
           100                    105                    110  
 Ala Ile Arg Asn Asp Glu Glu Leu Asn Lys Leu Leu Gly Gly Val Thr  
           115                    120                    125

412

Ile Ala Gln Gly Arg Arg Xaa Ala Gln His Pro Gly Arg Xaa Cys Cys  
 130 135 140

Pro Arg Arg Pro Ala Pro Pro Trp Gly Arg Xaa Pro Phe Gly Gly Gln  
 145 150 155 160

Glu Arg Ala Thr Lys Ala Ser Gln Gly Val Leu  
 165 170

&lt;210&gt; 463

&lt;211&gt; 433

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 463

Arg Val Arg Ala Pro Pro Arg Pro Pro Leu Gly Pro Ser Arg Pro Ser  
 1 5 10 15

His His Val His Pro Leu Gln Leu Pro Gly Ile Arg Glu Val Thr Ile  
 20 25 30

Asn Gln Ser Leu Leu Ala Pro Leu Arg Leu Asp Ala Asp Pro Ser Leu  
 35 40 45

Gln Arg Val Arg Gln Glu Glu Ser Glu Gln Ile Lys Thr Leu Asn Asn  
 50 55 60

Lys Phe Ala Ser Phe Ile Asp Lys Val Arg Phe Leu Glu Gln Gln Asn  
 65 70 75 80

Lys Leu Leu Glu Thr Lys Trp Thr Leu Leu Gln Glu Gln Lys Ser Ala  
 85 90 95

Lys Ser Ser Arg Leu Pro Asp Ile Phe Glu Ala Gln Ile Ala Gly Leu  
 100 105 110

Arg Gly Gln Leu Glu Ala Leu Gln Val Asp Gly Gly Arg Leu Glu Ala  
 115 120 125

Glu Leu Arg Ser Met Gln Asp Val Val Glu Asp Phe Lys Asn Lys Tyr  
 130 135 140

Glu Asp Glu Ile Asn Arg Arg Thr Ala Ala Glu Asn Glu Phe Val Val  
 145 150 155 160

Leu Lys Lys Asp Val Asp Ala Ala Tyr Met Ser Lys Val Glu Leu Glu  
 165 170 175



413

Ala Lys Val Asp Ala Leu Asn Asp Glu Ile Asn Phe Leu Arg Thr Leu  
 180 185 190  
 Asn Glu Thr Glu Leu Thr Glu Leu Gln Ser Gln Ile Ser Asp Thr Ser  
 195 200 205  
 Val Val Leu Ser Met Asp Asn Ser Arg Ser Leu Asp Leu Asp Gly Ile  
 210 215 220  
 Ile Ala Glu Val Lys Ala Gln Tyr Glu Glu Met Ala Lys Cys Ser Arg  
 225 230 235 240  
 Ala Glu Ala Glu Ala Trp Tyr Gln Thr Lys Phe Glu Thr Leu Gln Ala  
 245 250 255  
 Gln Ala Gly Lys His Gly Asp Asp Leu Arg Asn Thr Arg Asn Glu Ile  
 260 265 270  
 Ser Glu Met Asn Arg Ala Ile Gln Arg Leu Gln Ala Glu Ile Asp Asn  
 275 280 285  
 Ile Lys Asn Gln Arg Ala Lys Leu Glu Ala Ala Ile Ala Glu Ala Glu  
 290 295 300  
 Glu Arg Gly Glu Leu Ala Leu Lys Asp Ala Arg Ala Lys Gln Glu Glu  
 305 310 315 320  
 Leu Glu Ala Ala Leu Gln Arg Ala Lys Gln Asp Met Ala Arg Gln Leu  
 325 330 335  
 Arg Glu Tyr Gln Glu Leu Met Ser Val Lys Leu Ala Leu Asp Ile Glu  
 340 345 350  
 Ile Ala Thr Tyr Arg Lys Leu Leu Glu Gly Glu Glu Ser Arg Leu Ala  
 355 360 365  
 Gly Asp Gly Val Gly Ala Val Asn Ile Ser Val Met Asn Ser Thr Gly  
 370 375 380  
 Gly Ser Ser Ser Gly Gly Gly Ile Gly Leu Thr Leu Gly Gly Thr Met  
 385 390 395 400  
 Gly Ser Asn Ala Leu Ser Phe Ser Ser Ser Ala Gly Pro Gly Leu Leu  
 405 410 415  
 Lys Ala Tyr Ser Ile Arg Thr Ala Ser Ala Ser Arg Arg Ser Ala Arg  
 420 425 430

Asp

414

<210> 464  
 <211> 121  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (50)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (64)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (110)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (114)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (115)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (117)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 464  
 Gly Ser Gly Cys Val Phe Ala Ile Leu Gly Arg Arg Cys Ser Arg Pro  
     1                    5                    10                    15

Trp Arg Ile Trp Pro Gly Glu Pro Leu Gln Arg Ala Pro Pro Ala Ala  
                     20                    25                    30

Gly Thr Arg Trp Pro His Gly His Arg Ser Ser Pro Val Gly Thr Pro  
                     35                    40                    45

Gly Xaa Ala Pro Asn Val Pro Ala Ile Trp Gln Gln Pro Leu Trp Xaa  
                     50                    55                    60

Glu Tyr Ser Cys Glu Tyr Gly Ser Met Lys Phe Tyr Ala Leu Cys Gly

```

65              70              75              80
Phe Gly Gly Val Leu Ser Cys Gly Leu Thr His Thr Ala Val Val Pro
      85              90              95
Leu Asp Leu Val Lys Cys Arg Met Gln Val Asp Pro Gln Xaa Tyr Lys
      100             105             110
Gly Xaa Xaa Asn Xaa Ile Leu Ile Asn
      115             120

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```
<210> 465
<211> 68
<212> PRT
<213> Homo sapiens
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<400> 465
Arg Ile Pro Ala Pro Ala Ser Ser Arg His Ser Gly Gly Arg Cys Ala
 1             5             10             15
Ala Gly Pro Arg Gly Pro Pro Ala Thr Ala Ser Arg Ala Leu Arg Ala
      20             25             30
Val His Arg Pro Leu Asp Ala Ala Arg Gly Arg Thr Gly Ser Thr Ser
      35             40             45
His Leu Cys Ser Ser Ser Tyr Thr Ile Gly Cys Leu Leu Trp Phe Ser
 50             55             60
Gln Lys Ala Met
 65

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<210> 466
<211> 224
<212> PRT
<213> Homo sapiens
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```

<400> 466
Ala Thr Ile Leu Glu Arg Glu Ala Glu Gln Ser Arg Leu Gly Ala Thr
 1             5             10             15
Glu Arg Ala Ala Ala Ala Met Asn Pro Glu Tyr Asp Tyr Leu Phe
      20             25             30
Lys Leu Leu Leu Ile Gly Asp Ser Gly Val Gly Lys Ser Cys Leu Leu
 35             40             45

```

416

Leu Arg Phe Ala Asp Asp Thr Tyr Thr Glu Ser Tyr Ile Ser Thr Ile  
 50 55 60  
 Gly Val Asp Phe Lys Ile Arg Thr Ile Glu Leu Asp Gly Lys Thr Ile  
 65 70 75 80  
 Lys Leu Gln Ile Trp Asp Thr Ala Gly Gln Glu Arg Phe Arg Thr Ile  
 85 90 95  
 Thr Ser Ser Tyr Tyr Arg Gly Ala His Gly Ile Ile Val Val Tyr Asp  
 100 105 110  
 Val Thr Asp Gln Glu Ser Tyr Ala Asn Val Lys Gln Trp Leu Gln Glu  
 115 120 125  
 Ile Asp Arg Tyr Ala Ser Glu Asn Val Asn Lys Leu Leu Val Gly Asn  
 130 135 140  
 Lys Ser Asp Leu Thr Thr Lys Lys Val Val Asp Asn Thr Thr Ala Lys  
 145 150 155 160  
 Glu Phe Ala Asp Ser Leu Gly Ile Pro Phe Leu Glu Thr Ser Ala Lys  
 165 170 175  
 Asn Ala Thr Asn Val Glu Gln Ala Phe Met Thr Met Ala Ala Glu Ile  
 180 185 190  
 Lys Lys Arg Met Gly Pro Gly Ala Ala Ser Gly Gly Glu Arg Pro Asn  
 195 200 205  
 Leu Lys Ile Asp Ser Thr Pro Val Lys Pro Ala Gly Gly Gly Cys Cys  
 210 215 220

&lt;210&gt; 467

&lt;211&gt; 76

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 467

Ser Glu Ala Pro Gly Glu Ser Val Gly Thr Thr Pro Glu Ala Gln Met  
 1 5 10 15

Lys Thr Gly Pro Phe Ala Glu His Ser Asn Gln Leu Trp Asn Ile Ser  
 20 25 30

Ala Val Pro Ser Trp Ser Lys Val Asn Gln Gly Leu Ile Arg Met Tyr

417

35 40 45  
 Lys Ala Glu Cys Leu Glu Lys Phe Pro Val Ile Gln His Phe Lys Phe  
 50 55 60

Gly Ser Leu Leu Pro Ile His Pro Val Thr Ser Gly  
 65 70 75

&lt;210&gt; 468

&lt;211&gt; 111

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (31)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (35)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (47)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (49)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (78)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (97)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 468

Ser Leu Ala Arg Thr Gly Pro Arg Ser Leu Ala Arg Pro Cys Arg Arg  
 1 5 10 15

Arg Pro Ala His Arg His Pro Leu Gln Pro Cys Pro Pro Gly Xaa Cys  
 20 25 30

418

Pro Arg Xaa Pro Thr Ala Asp Val Arg Arg Pro Arg His Arg Xaa Arg  
 35 40 45

Xaa Glu Leu His Ala His Asn Val Thr Ser Pro Pro Ala Pro Thr Ala  
 50 55 60

Trp Ala Ala Pro Ala Pro Gln His Gln Pro Gln Pro Leu Xaa Leu Val  
 65 70 75 80

Pro Gly Arg Arg Val Cys Ser Arg Leu Leu Pro Arg Cys Ala Cys Gly  
 85 90 95

Xaa Cys Cys Pro Gly Val Ala Leu Ala Gly Arg Ile Pro Trp Asn  
 100 105 110

<210> 469

<211> 459

<212> PRT

<213> Homo sapiens

<400> 469

Pro Arg Val Arg Pro Arg Val Arg Pro Arg Val Arg Leu Ser Ser Pro  
 1 5 10 15

Ser Pro Val Cys Leu Pro Pro Ala Ala Ala Thr Met Thr Thr Ser Ile  
 20 25 30

Arg Gln Phe Thr Ser Ser Ser Ser Ile Lys Gly Ser Ser Gly Leu Gly  
 35 40 45

Gly Gly Ser Ser Arg Thr Ser Cys Arg Leu Ser Gly Gly Leu Gly Ala  
 50 55 60

Gly Ser Cys Arg Leu Gly Ser Ala Gly Gly Leu Gly Ser Thr Leu Gly  
 65 70 75 80

Gly Ser Ser Tyr Ser Ser Cys Tyr Ser Phe Gly Ser Gly Gly Gly Tyr  
 85 90 95

Gly Ser Ser Phe Gly Gly Val Asp Gly Leu Leu Ala Gly Gly Glu Lys  
 100 105 110

Ala Thr Met Gln Asn Leu Asn Asp Arg Leu Ala Ser Tyr Leu Asp Lys  
 115 120 125

Val Arg Ala Leu Glu Glu Ala Asn Thr Glu Leu Glu Val Lys Ile Arg  
 130 135 140

419

Asp	Trp	Tyr	Gln	Arg	Gln	Ala	Pro	Gly	Pro	Ala	Arg	Asp	Tyr	Ser	Gln	145	150	155	160
Tyr	Tyr	Arg	Thr	Ile	Glu	Glu	Leu	Gln	Asn	Lys	Ile	Leu	Thr	Ala	Thr	165	170	175	
Val	Asp	Asn	Ala	Asn	Ile	Leu	Leu	Gln	Ile	Asp	Asn	Ala	Arg	Leu	Ala	180	185	190	
Ala	Asp	Asp	Phe	Arg	Thr	Lys	Phe	Glu	Thr	Glu	Gln	Ala	Leu	Arg	Leu	195	200	205	
Ser	Val	Glu	Ala	Asp	Ile	Asn	Gly	Leu	Arg	Arg	Val	Leu	Asp	Glu	Leu	210	215	220	
Thr	Leu	Ala	Arg	Ala	Asp	Leu	Glu	Met	Gln	Ile	Glu	Asn	Leu	Lys	Glu	225	230	235	240
Glu	Leu	Ala	Tyr	Leu	Lys	Lys	Asn	His	Glu	Glu	Glu	Met	Asn	Ala	Leu	245	250	255	
Arg	Gly	Gln	Val	Gly	Gly	Glu	Ile	Asn	Val	Glu	Met	Asp	Ala	Ala	Pro	260	265	270	
Gly	Val	Asp	Leu	Ser	Arg	Ile	Leu	Asn	Glu	Met	Arg	Asp	Gln	Tyr	Glu	275	280	285	
Lys	Met	Ala	Glu	Lys	Asn	Arg	Lys	Asp	Ala	Glu	Asp	Trp	Phe	Phe	Ser	290	295	300	
Lys	Thr	Glu	Glu	Leu	Asn	Arg	Glu	Val	Ala	Thr	Asn	Ser	Glu	Leu	Val	305	310	315	320
Gln	Ser	Gly	Lys	Ser	Glu	Ile	Ser	Glu	Leu	Arg	Arg	Thr	Met	Gln	Ala	325	330	335	
Leu	Glu	Ile	Glu	Leu	Gln	Ser	Gln	Leu	Ser	Met	Lys	Ala	Ser	Leu	Glu	340	345	350	
Gly	Asn	Leu	Ala	Glu	Thr	Glu	Asn	Arg	Tyr	Cys	Val	Gln	Leu	Ser	Gln	355	360	365	
Ile	Gln	Gly	Leu	Ile	Gly	Ser	Val	Glu	Glu	Gln	Leu	Ala	Gln	Leu	Arg	370	375	380	
Cys	Glu	Met	Glu	Gln	Gln	Asn	Gln	Glu	Tyr	Lys	Ile	Leu	Leu	Asp	Val	385	390	395	400
Lys	Thr	Arg	Leu	Glu	Gln	Glu	Ile	Ala	Thr	Tyr	Arg	Arg	Leu	Leu	Glu	405	410	415	

420

Gly Glu Asp Ala His Leu Thr Gln Tyr Lys Lys Glu Pro Val Thr Thr  
                   420                  425                  430

Arg Gln Val Arg Thr Ile Val Glu Glu Val Gln Asp Gly Lys Val Ile  
                   435                  440                  445

Ser Ser Arg Glu Gln Val His Gln Thr Thr Arg  
           450                  455

&lt;210&gt; 470

&lt;211&gt; 158

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (158)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 470

Pro Pro Pro Pro Pro Pro Pro Glu Leu Cys Ser Met Ala Ser Arg Arg  
   1                  5                  10                  15

Met Glu Thr Lys Pro Val Ile Thr Cys Leu Lys Thr Leu Leu Ile Ile  
                   20                  25                  30

Tyr Ser Phe Val Phe Trp Ile Thr Gly Val Ile Leu Leu Ala Val Gly  
           35                  40                  45

Val Trp Gly Lys Leu Thr Leu Gly Thr Tyr Ile Ser Leu Ile Ala Glu  
   50                  55                  60

Asn Ser Thr Asn Ala Pro Tyr Val Leu Ile Gly Thr Gly Thr Thr Ile  
   65                  70                  75                  80

Val Val Phe Gly Leu Phe Gly Cys Phe Ala Thr Cys Arg Gly Ser Pro  
           85                  90                  95

Trp Met Leu Lys Leu Tyr Ala Met Phe Leu Ser Leu Val Phe Leu Ala  
          100                 105                 110

Glu Leu Val Ala Gly Ile Ser Gly Phe Val Phe Arg His Glu Ile Lys  
          115                 120                 125

Asp Thr Phe Leu Arg Thr Tyr Thr Asp Ala Met Gln Thr Tyr Asn Gly  
   130                 135                 140

Asn Asp Glu Arg Ser Arg Ala Val Asp His Val Gln Arg Xaa  
  145                 150                 155



421

&lt;210&gt; 471

&lt;211&gt; 59

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 471

Val Leu Phe Phe Tyr Glu Cys Pro Asn Leu Cys Phe Pro Leu Pro Ser  
1 5 10 15

Gln Thr Val Trp Pro Val Glu Ser Val Trp Phe Val Phe Ile Ser Pro  
20 25 30

Ser Phe Leu Glu Gln Gly Leu Arg Pro Cys His Ile Ser Tyr Ala Leu  
35 40 45

His Pro Arg Leu Phe Trp Thr Leu Lys Val Asp  
50 55

&lt;210&gt; 472

&lt;211&gt; 320

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (48)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (49)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (53)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (105)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 472

Asp Pro Asp Glu Val Phe Pro Val Cys Leu Pro Leu Thr Gly Asp Ala  
1 5 10 15

422

Gly Glu Asp Gly Gly Lys Met Leu His Leu Pro Glu Trp Pro Glu Gln  
                   20                  25                  30  
 Pro Pro Gly Gly Pro Ala Ala Leu Gln Val Arg Gly Ala Glu Asp Xaa  
                   35                  40                  45  
 Xaa Leu Ser Phe Xaa Asp Cys Glu Ser Leu Gln Ala Val Phe Asp Pro  
           50                  55                  60  
 Ala Ser Cys Pro His Met Leu Arg Ala Pro Ala Arg Val Leu Gly Glu  
   65                  70                  75                  80  
 Ala Val Leu Pro Phe Ser Pro Ala Leu Ala Glu Val Thr Leu Gly Ile  
                   85                  90                  95  
 Gly Arg Gly Ala Gly Ser Ser Trp Xaa Tyr His Glu Glu Glu Ala Asp  
                   100                  105                  110  
 Ser Thr Ala Lys Ala Met Val Thr Glu Met Cys Leu Gly Glu Glu Asp  
           115                  120                  125  
 Phe Gln Gln Leu Gln Ala Gln Glu Gly Val Ala Ile Thr Phe Cys Leu  
   130                  135                  140  
 Lys Glu Phe Arg Gly Leu Leu Ser Phe Ala Glu Ser Ala Asn Leu Asn  
  145                  150                  155                  160  
 Leu Ser Ile His Phe Asp Ala Pro Gly Arg Pro Ala Ile Phe Thr Ile  
                   165                  170                  175  
 Lys Asp Ser Leu Leu Asp Gly His Phe Val Leu Ala Thr Leu Ser Asp  
           180                  185                  190  
 Thr Asp Ser His Ser Gln Asp Leu Gly Ser Pro Glu Arg His Gln Pro  
           195                  200                  205  
 Val Pro Gln Leu Gln Ala His Ser Thr Pro His Pro Asp Asp Phe Ala  
   210                  215                  220  
 Asn Asp Asp Ile Asp Ser Tyr Met Ile Ala Met Glu Thr Thr Ile Gly  
  225                  230                  235                  240  
 Asn Glu Gly Ser Arg Val Leu Pro Ser Ile Ser Leu Ser Pro Gly Pro  
           245                  250                  255  
 Gln Pro Pro Lys Ser Pro Gly Pro His Ser Glu Glu Glu Asp Glu Ala  
           260                  265                  270  
 Glu Pro Ser Thr Val Pro Gly Thr Pro Pro Pro Lys Lys Phe Arg Ser  
           275                  280                  285

423

Leu Phe Phe Gly Ser Ile Leu Ala Pro Val Arg Ser Pro Gln Gly Pro  
 290 295 300

Ser Leu Cys Trp Arg Lys Thr Val Arg Val Lys Ala Glu Pro Arg Thr  
 305 310 315 320

&lt;210&gt; 473

&lt;211&gt; 331

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (24)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (283)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (299)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (324)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 473

Pro Pro Cys Ala Val Pro Gly Pro Arg Leu Ser Pro Lys Leu Arg Thr  
 1 5 10 15

Pro Ser Asn Ser Arg Glu Ser Xaa Ile Cys Val Ser Gly Arg Ala Glu  
 20 25 30

Ala Leu Thr Phe Arg His Gly Ala Glu Gly Ser Asp Arg Arg Arg Gln  
 35 40 45

Arg Arg Glu Gly Val Leu Gly Pro Ala Leu Leu Cys Arg Pro Trp Glu  
 50 55 60

Val Leu Gly Ala His Glu Val Pro Ser Arg Asn Ile Phe Ser Glu Gln

424

65		70		75		80									
Thr	Ile	Pro	Pro	Ser	Ala	Lys	Tyr	Gly	Gly	Arg	His	Thr	Val	Thr	Met
				85					90					95	
Ile	Pro	Gly	Asp	Gly	Ile	Gly	Pro	Glu	Leu	Met	Leu	His	Val	Lys	Ser
			100					105					110		
Val	Phe	Arg	His	Ala	Cys	Val	Pro	Val	Asp	Phe	Glu	Glu	Val	His	Val
		115					120					125			
Ser	Ser	Asn	Ala	Asp	Glu	Glu	Asp	Ile	Arg	Asn	Ala	Ile	Met	Ala	Ile
		130					135				140				
Arg	Arg	Asn	Arg	Val	Ala	Leu	Lys	Gly	Asn	Ile	Glu	Thr	Asn	His	Asn
145					150					155					160
Leu	Pro	Pro	Ser	His	Lys	Ser	Arg	Asn	Asn	Ile	Leu	Arg	Thr	Ser	Leu
				165					170					175	
Asp	Leu	Tyr	Ala	Asn	Val	Ile	His	Cys	Lys	Ser	Leu	Pro	Gly	Val	Val
			180					185					190		
Thr	Arg	His	Lys	Asp	Ile	Asp	Ile	Leu	Ile	Val	Arg	Glu	Asn	Thr	Glu
		195					200						205		
Gly	Glu	Tyr	Ser	Ser	Leu	Glu	His	Glu	Ser	Val	Ala	Gly	Val	Val	Glu
	210					215					220				
Ser	Leu	Lys	Ile	Ile	Thr	Lys	Ala	Lys	Ser	Leu	Arg	Ile	Ala	Glu	Tyr
225					230					235					240
Ala	Phe	Lys	Leu	Ala	Gln	Glu	Ser	Gly	Arg	Lys	Lys	Val	Thr	Ala	Val
				245					250					255	
His	Lys	Ala	Asn	Ile	Met	Lys	Leu	Gly	Asp	Gly	Leu	Phe	Leu	Gln	Cys
			260					265					270		
Cys	Arg	Glu	Val	Ala	Ala	Arg	Tyr	Pro	Gln	Xaa	Thr	Phe	Glu	Asn	Met
		275					280						285		
Ile	Val	Asp	Asn	Thr	Thr	Met	Gln	Leu	Val	Xaa	Arg	Pro	Gln	Gln	Phe
	290					295					300				
Asp	Val	Met	Val	Met	Pro	Asn	Leu	Tyr	Gly	Asn	Ile	Val	Lys	Gln	Cys
305					310					315					320
Leu	Arg	Gly	Xaa	Gly	Arg	Gly	Pro	Lys	Leu	Val					
				325					330						

425

&lt;210&gt; 474

&lt;211&gt; 30

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 474

Thr Pro Ile Ser Thr Lys Asn Thr Lys Ile Ser Gln Ala Arg Trp Arg  
 1 5 10 15  
 Ala His Val Val Pro Ala Thr Arg Glu Ala Asp Ala Glu Glu  
 20 25 30

&lt;210&gt; 475

&lt;211&gt; 124

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (110)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 475

Thr Gln Phe Ser Leu Ser Pro Val Glu Thr Ile Tyr Thr Ile Leu Cys  
 1 5 10 15  
 Ile Asn Val Tyr Thr Leu Pro Ile Cys Ile His Ile Tyr Ile Val Tyr  
 20 25 30  
 Ile Leu Tyr Met Tyr Arg Cys Val Tyr Val His Ile Tyr Thr His Ala  
 35 40 45  
 His Asn Lys Ile Arg Cys Ser Leu Gln Ile Gln Met Leu Ile Thr Lys  
 50 55 60  
 Pro Asp Ala Thr Gln Thr Ala Ala Glu Glu Thr Arg Leu Asp Ser Cys  
 65 70 75 80  
 Asn Arg Ser Gln Lys Ile Lys Thr Ala Thr Cys Ser Asp Phe Gly His  
 85 90 95  
 Phe Cys Met Phe Ile Lys Asn Gly Phe Val Thr Arg Lys Xaa Arg Thr  
 100 105 110  
 Ser Val Ser Glu Lys Gly Arg Trp Gly Glu Pro Ser  
 115 120

426

&lt;210&gt; 476

&lt;211&gt; 64

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 476

Asn Gly Tyr Leu Val Phe Pro Arg Lys Asn Ser Phe Leu Leu Ile Phe  
1 5 10 15

Gly Leu Phe Val Tyr Leu Glu Thr Asn Leu Asp Ser Leu Pro Leu Val  
20 25 30

Asp Thr His Ser Lys Arg Thr Leu Leu Ile Lys Thr Val Glu Thr Arg  
35 40 45

Asp Gly Gln Val Ile Asn Glu Thr Ser Gln His His Asp Asp Leu Glu  
50 55 60

&lt;210&gt; 477

&lt;211&gt; 107

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 477

Val Leu Thr Val Asp Ala Arg Asn His Gly Asp Ser Pro His Ser Pro  
1 5 10 15

Asp Met Ser Tyr Glu Ile Met Ser Gln Asp Leu Gln Asp Leu Leu Pro  
20 25 30

Gln Leu Gly Leu Val Pro Cys Val Val Val Gly His Ser Met Gly Gly  
35 40 45

Lys Thr Ala Met Leu Leu Ala Leu Gln Arg Pro Glu Leu Val Glu Arg  
50 55 60

Leu Ile Ala Val Asp Ile Ser Pro Val Glu Ser Thr Gly Val Ser His  
65 70 75 80

Phe Ala Thr Tyr Val Ala Ala Met Arg Ala Ile Asn Ile Ala Asp Arg  
85 90 95

Leu Ala Pro Leu Pro Cys Pro Lys Thr Gly Gly  
100 105

427

&lt;210&gt; 478

&lt;211&gt; 282

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (281)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 478

Arg Glu Leu Gly Gly Thr Leu Leu Ser Ala Ile Glu Val Glu Gly Ala  
 1 5 10 15

Lys Met Gln Ser Asn Lys Thr Phe Asn Leu Glu Lys Gln Asn His Thr  
 20 25 30

Pro Arg Lys His His Gln His His His Gln Gln Gln His His Gln Gln  
 35 40 45

Gln Gln Gln Gln Pro Pro Pro Pro Pro Ile Pro Ala Asn Gly Gln Gln  
 50 55 60

Ala Ser Ser Gln Asn Glu Gly Leu Thr Ile Asp Leu Lys Asn Phe Arg  
 65 70 75 80

Lys Pro Gly Glu Lys Thr Phe Thr Gln Arg Ser Arg Leu Phe Val Gly  
 85 90 95

Asn Leu Pro Pro Asp Ile Thr Glu Glu Glu Met Arg Lys Leu Phe Glu  
 100 105 110

Lys Tyr Gly Lys Ala Gly Glu Val Phe Ile His Lys Asp Lys Gly Phe  
 115 120 125

Gly Phe Ile Arg Leu Glu Thr Arg Thr Leu Ala Glu Ile Ala Lys Val  
 130 135 140

Glu Leu Asp Asn Met Pro Leu Arg Gly Lys Gln Leu Arg Val Arg Phe  
 145 150 155 160

Ala Cys His Ser Ala Ser Leu Thr Val Arg Asn Leu Pro Gln Tyr Val  
 165 170 175

Ser Asn Glu Leu Leu Glu Glu Ala Phe Ser Val Phe Gly Gln Val Glu  
 180 185 190

Arg Ala Val Val Ile Val Asp Asp Arg Gly Arg Pro Ser Gly Lys Gly  
 195 200 205

428

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Ile Val Glu Phe Ser Gly Lys Pro Ala Ala Arg Lys Ala Leu Asp Arg
  210                215                220

Cys Ser Glu Gly Ser Phe Leu Leu Thr Thr Phe Pro Arg Pro Val Thr
  225                230                235                240

Val Glu Pro Met Asp Gln Leu Asp Asp Glu Glu Gly Leu Pro Glu Lys
      245                250                255

Leu Val Ile Lys Asn Gln Gln Phe His Lys Glu Arg Glu Gln Pro Pro
      260                265                270

Arg Phe Ala Gln Pro Gly Ser Phe Xaa Val
      275                280

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```

<210> 479
<211> 289
<212> PRT
<213> Homo sapiens

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<220>
<221> SITE
<222> (206)
<223> Xaa equals any of the naturally occurring L-amino acids

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<220>
<221> SITE
<222> (215)
<223> Xaa equals any of the naturally occurring L-amino acids

```

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<220>
<221> SITE
<222> (218)
<223> Xaa equals any of the naturally occurring L-amino acids

```

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<220>
<221> SITE
<222> (285)
<223> Xaa equals any of the naturally occurring L-amino acids

```

```

<400> 479
Ala Val Pro Val Arg Asn Ser Arg Val Asp Pro Arg Val Arg Val Cys
  1              5              10              15

Gly Pro Leu Ser Ala Pro Arg Gly Ser Arg Arg Pro Thr Val Pro Gly
      20              25              30

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Thr Pro Ala Cys Leu Ala Arg Pro Ala Ala Gln Gly Phe Ser Ala Ala

```



429

35	40	45
Leu Pro Val Arg Trp Thr Gly Arg Arg Ala Gly Pro Ser Arg Pro Val		
50	55	60
Pro Ile Gly Thr Pro Ser Arg Ala Ala Asp Pro Ser Gln Gly Glu Met		
65	70	75 80
Ser Ala Asp Ala Ala Ala Gly Ala Pro Leu Pro Arg Leu Cys Cys Leu		
	85	90 95
Glu Lys Gly Pro Asn Gly Tyr Gly Phe His Leu His Gly Glu Lys Gly		
	100	105 110
Lys Leu Gly Gln Tyr Ile Arg Leu Val Glu Pro Gly Ser Pro Ala Glu		
	115	120 125
Lys Ala Gly Leu Leu Ala Gly Asp Arg Leu Val Glu Val Asn Gly Glu		
	130	135 140
Asn Val Glu Lys Glu Thr His Gln Gln Val Val Ser Arg Ile Arg Ala		
	145	150 155 160
Ala Leu Asn Ala Val Arg Leu Leu Val Val Asp Pro Glu Thr Asp Glu		
	165	170 175
Gln Leu Gln Lys Leu Gly Val Gln Val Arg Glu Glu Leu Leu Arg Ala		
	180	185 190
Gln Glu Ala Pro Gly Gln Ala Glu Pro Pro Ala Ala Ala Xaa Val Gln		
	195	200 205
Gly Ala Gly Asn Glu Asn Xaa Pro Arg Xaa Ala Asp Lys Ser His Pro		
	210	215 220
Glu Gln Arg Glu Leu Arg Pro Arg Leu Cys Thr Met Lys Lys Gly Pro		
	225	230 235 240
Ser Gly Tyr Gly Phe Asn Leu His Ser Asp Lys Ser Lys Pro Gly Gln		
	245	250 255
Phe Ile Arg Ser Val Asp Pro Asp Ser Pro Ala Glu Ala Ser Gly Leu		
	260	265 270
Arg Ala Gln Asp Arg Ile Val Glu Val Met Leu Leu Xaa Ser Leu Pro		
	275	280 285
Ile		

430

&lt;210&gt; 480

&lt;211&gt; 44

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 480

Gly Ser Thr His Ala Ser Gly Arg Asn Glu Gly Pro Pro Ala Lys Thr  
1 5 10 15

Lys Ser Trp Val Gly Pro Thr Leu His Phe His Arg Lys Ser Glu His  
20 25 30

Leu Val Gly Leu Lys Val Leu Cys Cys Phe Arg Leu  
35 40

&lt;210&gt; 481

&lt;211&gt; 124

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (8)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (9)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (10)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 481

Ser Ile Xaa His Xaa Arg Lys Xaa Xaa Xaa Thr Val Arg Ser Asp Ser  
1 5 10 15

431

```

Arg Val Asp Pro Arg Ser Asp Asp Phe Thr Pro Leu Glu Ile Leu Trp
      20                      25                      30

Thr Phe Ser Ile Tyr Leu Glu Ser Val Ala Ile Leu Pro Gln Leu Phe
      35                      40                      45

Met Val Ser Lys Thr Gly Glu Ala Glu Thr Ile Thr Ser His Tyr Leu
      50                      55                      60

Phe Ala Leu Gly Val Tyr Arg Thr Leu Tyr Leu Phe Asn Trp Ile Trp
      65                      70                      75                      80

Arg Tyr His Phe Glu Gly Phe Phe Asp Leu Ile Ala Ile Val Ala Gly
      85                      90                      95

Leu Val Gln Thr Val Leu Tyr Cys Asp Phe Phe Tyr Leu Tyr Ile Thr
      100                      105                      110

Lys Val Leu Lys Gly Lys Lys Leu Ser Leu Pro Ala
      115                      120

```

&lt;210&gt; 482

&lt;211&gt; 131

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (122)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (124)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (127)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (131)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 482

Cys Ser Ser Arg Gly Ala His His Ser His Cys Asp Arg Leu Pro His

432

```

      1             5             10             15
Ser  Pro  Trp  Pro  Gly  Leu  Arg  Glu  Val  Glu  Leu  Leu  Ala  Ser  Val  His
      20             25             30
Thr  Glu  Gln  Met  Glu  Glu  Glu  Leu  Ala  Leu  Gly  Pro  Arg  Gly  Gln  Gly
      35             40             45
Gly  Ala  Ser  Leu  Ala  Gly  Arg  Asp  Gly  Arg  Ser  Ala  Gly  Ala  Gly  Ser
      50             55             60
Tyr  Gly  Ala  Leu  Ala  Asn  Ser  Ala  Trp  Gly  Gly  Pro  Arg  Lys  Val  Ala
      65             70             75             80
Ser  Ala  Ser  Ala  Ala  Ala  Ser  Thr  Leu  Ser  Glu  Pro  Pro  Arg  Arg  Thr
      85             90             95
Gln  Glu  Ser  Arg  Thr  Arg  Thr  Arg  Ala  Leu  Gly  Leu  Pro  Thr  Leu  Pro
      100            105            110
Met  Glu  Lys  Leu  Ala  Ala  Ser  Asn  Arg  Xaa  Pro  Xaa  Gly  Leu  Xaa  Gly
      115            120            125
Pro  Gly  Xaa
      130

```

&lt;210&gt; 483

&lt;211&gt; 221

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (168)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (174)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 483

```

Lys  Lys  Pro  Pro  Ile  Thr  His  Pro  Ser  Thr  Pro  Ala  Glu  Glu  Thr  Tyr
  1             5             10             15

```

```

Asn  Leu  Gly  Arg  Gln  Val  Leu  Pro  Leu  Ser  Ala  Val  Thr  Tyr  Phe  Gln
      20             25             30

```

```

Lys  Ser  Gly  Pro  Gly  Leu  Leu  Pro  Ala  Pro  Ala  Thr  Gln  Ser  Ala  Ser

```

433

35	40	45	
Val Ala Gly Thr Leu Gln Asn Ser Leu Cys Ser Gln Val Thr Lys Lys			
50	55	60	
Lys Arg Ala Asn Met Leu Val Leu Leu Ala Gly Ile Phe Val Val His			
65	70	75	80
Ile Ala Thr Val Ile Met Leu Phe Val Ser Thr Ile Ala Asn Val Trp			
85	90	95	
Leu Val Ser Asn Thr Val Asp Ala Ser Val Gly Leu Trp Lys Asn Cys			
100	105	110	
Thr Asn Ile Ser Cys Ser Asp Ser Leu Ser Tyr Ala Ser Glu Asp Ala			
115	120	125	
Leu Lys Thr Val Gln Ala Phe Met Ile Leu Ser Ile Ile Phe Cys Val			
130	135	140	
Ile Ala Leu Leu Val Phe Val Phe Gln Leu Phe Thr Met Glu Lys Gly			
145	150	155	160
Asn Arg Phe Phe Leu Ser Gly Xaa Thr Thr Leu Val Cys Xaa Leu Cys			
165	170	175	
Ile Leu Val Gly Cys Pro Ser Thr Leu Val Ile Met Arg Ile Val Met			
180	185	190	
Glu Arg Ile Cys Thr Thr Ala Ile Pro Thr Ser Trp Ala Gly Ser Ala			
195	200	205	
Ser Ala Ser Ala Ser Ser Ser Ala Phe Ser Ile Trp Ser			
210	215	220	

&lt;210&gt; 484

&lt;211&gt; 382

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (22)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (54)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

434

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (69)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (287)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (298)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (324)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (358)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 484

Thr	Lys	Leu	Trp	Thr	Leu	Val	Ser	Asn	Pro	Asp	Thr	Asp	Ala	Leu	Ile
1				5					10					15	

Cys	Trp	Ser	Pro	Ser	Xaa	Asn	Ser	Phe	His	Val	Phe	Asp	Gln	Gly	Gln
			20					25					30		

Phe	Ala	Lys	Glu	Val	Leu	Pro	Lys	Tyr	Phe	Lys	His	Asn	Asn	Met	Ala
	35						40					45			

Ser	Phe	Val	Arg	Gln	Xaa	Asn	Met	Tyr	Gly	Phe	Arg	Lys	Val	Val	His
	50					55					60				

Ile	Glu	Gln	Gly	Xaa	Leu	Val	Lys	Pro	Glu	Arg	Asp	Asp	Thr	Glu	Phe
65					70					75				80	

Gln	His	Pro	Cys	Phe	Leu	Arg	Gly	Gln	Glu	Gln	Leu	Leu	Glu	Asn	Ile
				85					90					95	

Lys	Arg	Lys	Val	Thr	Ser	Val	Ser	Thr	Leu	Lys	Ser	Glu	Asp	Ile	Lys
			100					105						110	

Ile	Arg	Gln	Asp	Ser	Val	Thr	Lys	Leu	Leu	Thr	Asp	Val	Gln	Leu	Met
				115				120						125	

435

Lys Gly Lys Gln Glu Cys Met Asp Ser Lys Leu Leu Ala Met Lys His  
 130 135 140  
 Glu Asn Glu Ala Leu Trp Arg Glu Val Ala Ser Leu Arg Gln Lys His  
 145 150 155 160  
 Ala Gln Gln Gln Lys Val Val Asn Lys Leu Ile Gln Phe Leu Ile Ser  
 165 170 175  
 Leu Val Gln Ser Asn Arg Ile Leu Gly Val Lys Arg Lys Ile Pro Leu  
 180 185 190  
 Met Leu Asn Asp Ser Gly Ser Ala His Ser Met Pro Lys Tyr Ser Arg  
 195 200 205  
 Gln Phe Ser Leu Glu His Val His Gly Ser Gly Pro Tyr Ser Ala Pro  
 210 215 220  
 Ser Pro Ala Tyr Ser Ser Ser Ser Leu Tyr Ala Pro Asp Ala Val Ala  
 225 230 235 240  
 Ser Ser Gly Pro Ile Ile Ser Asp Ile Thr Glu Leu Ala Pro Ala Ser  
 245 250 255  
 Pro Met Ala Ser Pro Gly Gly Ser Ile Asp Glu Arg Pro Leu Ser Ser  
 260 265 270  
 Ser Pro Leu Val Arg Val Lys Glu Glu Pro Pro Ser Pro Pro Xaa Ser  
 275 280 285  
 Pro Arg Val Glu Glu Ala Ser Pro Gly Xaa Pro Ser Ser Val Asp Thr  
 290 295 300  
 Leu Leu Ser Pro Thr Ala Leu Ile Asp Ser Ile Leu Arg Glu Ser Glu  
 305 310 315 320  
 Pro Ala Pro Xaa Ser Val Thr Ala Leu Thr Asp Ala Arg Gly His Thr  
 325 330 335  
 Asp Thr Glu Gly Arg Pro Pro Ser Pro Pro Pro Thr Ser Thr Pro Glu  
 340 345 350  
 Lys Cys Leu Ser Val Xaa Ala Trp Thr Arg Met Ser Ser Val Thr Thr  
 355 360 365  
 Trp Met Leu Trp Thr Pro Thr Trp Ile Thr Cys Arg Pro Cys  
 370 375 380

&lt;210&gt; 485

436

&lt;211&gt; 416

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (399)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 485

Pro Ser Val Ala Asn Val Gly Ser His Cys Asp Leu Ser Leu Lys Ile  
 1 5 10 15

Pro Glu Ile Ser Ile Gln Asp Met Thr Ala Gln Val Thr Ser Pro Ser  
 20 25 30

Gly Lys Thr His Glu Ala Glu Ile Val Glu Gly Glu Asn His Thr Tyr  
 35 40 45

Cys Ile Arg Phe Val Pro Ala Glu Met Gly Thr His Thr Val Ser Val  
 50 55 60

Lys Tyr Lys Gly Gln His Val Pro Gly Ser Pro Phe Gln Phe Thr Val  
 65 70 75 80

Gly Pro Leu Gly Glu Gly Gly Ala His Lys Val Arg Ala Gly Gly Pro  
 85 90 95

Gly Leu Glu Arg Ala Glu Ala Gly Val Pro Ala Glu Phe Ser Ile Trp  
 100 105 110

Thr Arg Glu Ala Gly Ala Gly Gly Leu Ala Ile Ala Val Glu Gly Pro  
 115 120 125

Ser Lys Ala Glu Ile Ser Phe Glu Asp Arg Lys Asp Gly Ser Cys Gly  
 130 135 140

Val Ala Tyr Val Val Gln Glu Pro Gly Asp Tyr Glu Val Ser Val Lys  
 145 150 155 160

Phe Asn Glu Glu His Ile Pro Asp Ser Pro Phe Val Val Pro Val Ala  
 165 170 175

Ser Pro Ser Gly Asp Ala Arg Arg Leu Thr Val Ser Ser Leu Gln Glu  
 180 185 190

Ser Gly Leu Lys Val Asn Gln Pro Ala Ser Phe Ala Val Ser Leu Asn  
 195 200 205

Gly Ala Lys Gly Ala Ile Asp Ala Lys Val His Ser Pro Ser Gly Ala  
 210 215 220



437

Leu Glu Glu Cys Tyr Val Thr Glu Ile Asp Gln Asp Lys Tyr Ala Val  
 225 230 235 240

Arg Phe Ile Pro Arg Glu Asn Gly Val Tyr Leu Ile Asp Val Lys Phe  
 245 250 255

Asn Gly Thr His Ile Pro Gly Ser Pro Phe Lys Ile Arg Val Gly Glu  
 260 265 270

Pro Gly His Gly Gly Asp Pro Gly Leu Val Ser Ala Tyr Gly Ala Gly  
 275 280 285

Leu Glu Gly Gly Val Thr Gly Asn Pro Ala Glu Phe Val Val Asn Thr  
 290 295 300

Ser Asn Ala Gly Ala Gly Ala Leu Ser Val Thr Ile Asp Gly Pro Ser  
 305 310 315 320

Lys Val Lys Met Asp Cys Gln Glu Cys Pro Glu Gly Tyr Arg Val Thr  
 325 330 335

Tyr Thr Pro Met Ala Pro Gly Ser Tyr Leu Ile Ser Ile Lys Tyr Gly  
 340 345 350

Gly Pro Tyr His Ile Gly Gly Ser Pro Phe Lys Ala Lys Val Thr Gly  
 355 360 365

Pro Arg Leu Val Ser Asn His Ser Leu His Glu Thr Ser Ser Val Phe  
 370 375 380

Val Asp Ser Leu Thr Lys Ala Thr Cys Ala Pro Gln His Gly Xaa Pro  
 385 390 395 400

Gly Pro Gly Pro Ala Asp Ala Ser Lys Val Val Ala Lys Gly Trp Gly  
 405 410 415

<210> 486

<211> 46

<212> PRT

<213> Homo sapiens

<400> 486

Phe Val Thr Ser Gly Lys Ile Ser Leu Tyr Val Tyr Ile Leu Thr Ile  
 1 5 10 15

438

Arg Leu Asp Thr Asn Lys Ala Thr Leu Leu Thr Ala Ser Gly Glu Leu  
20 25 30

Ile Leu Phe Leu Ile Phe Phe Asn Lys Asp Ile Leu Arg Tyr  
35 40 45

&lt;210&gt; 487

&lt;211&gt; 162

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 487

Leu Gly Val Ala Leu Gly Ala Val Pro Lys Leu His Leu Gly Val Leu  
1 5 10 15

Val Ser Thr Gly Leu Arg Thr Ala Val Gly Ser Pro Arg Leu Pro Pro  
20 25 30

Thr Ala Leu Gly Ala Ala Tyr Gly Thr Ala Lys Ser Gly Thr Gly Ile  
35 40 45

Ala Ala Met Ser Val Met Arg Pro Glu Gln Ile Met Lys Ser Ile Ile  
50 55 60

Pro Val Val Met Ala Gly Ile Ile Ala Ile Tyr Gly Leu Val Val Ala  
65 70 75 80

Val Leu Ile Ala Asn Ser Leu Asn Asp Asp Ile Ser Leu Tyr Lys Ser  
85 90 95

Phe Leu Gln Leu Gly Ala Gly Leu Ser Val Gly Leu Ser Gly Leu Ala  
100 105 110

Ala Gly Phe Ala Ile Gly Ile Val Gly Asp Ala Gly Val Arg Gly Thr  
115 120 125

Ala Gln Gln Pro Arg Leu Phe Val Gly Met Ile Leu Ile Leu Ile Phe  
130 135 140

Ala Glu Val Leu Gly Leu Tyr Gly Leu Ile Val Ala Leu Ile Leu Ser  
145 150 155 160

Thr Lys

&lt;210&gt; 488

&lt;211&gt; 114

439

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (95)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (111)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (113)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 488

Gln	Ala	Leu	Arg	Pro	Gly	Ser	Phe	Arg	Gly	Thr	Gly	Arg	Lys	Arg	Glu
1				5					10					15	

Arg	Glu	Arg	Glu	Arg	Met	Ser	Leu	Ser	Asp	Trp	His	Leu	Ala	Val	Lys
			20					25					30		

Leu	Ala	Asp	Gln	Pro	Leu	Ala	Pro	Lys	Ser	Ile	Leu	Gln	Leu	Pro	Glu
		35					40					45			

Ser	Glu	Leu	Gly	Glu	Tyr	Ser	Leu	Gly	Gly	Tyr	Ser	Ile	Ser	Phe	Leu
	50					55						60			

Lys	Gln	Leu	Ile	Ala	Gly	Lys	Leu	Gln	Glu	Ser	Val	Pro	Asp	Pro	Glu
65					70					75				80	

Leu	Ile	Asp	Leu	Ile	Tyr	Cys	Gly	Arg	Lys	Leu	Lys	Asp	Asp	Xaa	Thr
				85					90					95	

Leu	Thr	Ser	Thr	Val	Phe	Asn	Leu	Ala	Pro	His	Pro	Cys	Ser	Xaa	Glu
				100				105					110		

Xaa Leu

&lt;210&gt; 489

&lt;211&gt; 149

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

440

&lt;221&gt; SITE

&lt;222&gt; (121)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (142)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 489

Ser Thr His Ala Ser Glu Asp Val Leu Ala Ala Pro Ser Gly Cys Arg  
 1 5 10 15

Ala Ser Arg Pro Pro Thr Ser Gly Arg Glu Gln Phe Trp Ala Arg Gly  
 20 25 30

Leu Ala Ala Ala Asp Met Thr Lys Gly Leu Val Leu Gly Ile Tyr Ser  
 35 40 45

Lys Asp Lys Glu Asp Asp Val Pro Gln Phe Thr Ser Ala Gly Glu Asn  
 50 55 60

Phe Asp Lys Leu Val Ser Gly Lys Leu Arg Glu Ile Leu Asn Ile Ser  
 65 70 75 80

Gly Pro Pro Leu Lys Ala Gly Lys Thr Arg Thr Phe Tyr Gly Leu His  
 85 90 95

Glu Asp Phe Pro Ser Val Val Val Val Gly Leu Gly Arg Lys Ala Ala  
 100 105 110

Gly Val Asp Asp Gln Glu Asn Trp Xaa Glu Gly Lys Glu Asn Ile Arg  
 115 120 125

Val Ala Met Gln Arg Gly Ala Gly Arg Phe Gln Asp Leu Xaa Ile Ser  
 130 135 140

Ser Val Glu Gly Gly  
 145

&lt;210&gt; 490

&lt;211&gt; 527

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (311)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

441

&lt;400&gt; 490

Arg Arg Arg Ser Arg Gly Leu Ile Pro Gly Arg Ala Pro Gly Arg Arg  
 1 5 10 15

Arg Pro Arg Ala His Glu Val Ala Arg Ala Pro Pro Pro Ile Ala Met  
 20 25 30

Asp Arg Met Lys Lys Ile Lys Arg Gln Leu Ser Met Thr Leu Arg Gly  
 35 40 45

Gly Arg Gly Ile Asp Lys Thr Asn Gly Ala Pro Glu Gln Ile Gly Leu  
 50 55 60

Asp Glu Ser Gly Gly Gly Gly Gly Ser Asp Pro Gly Glu Ala Pro Thr  
 65 70 75 80

Arg Ala Ala Pro Gly Glu Leu Arg Ser Ala Arg Gly Pro Leu Ser Ser  
 85 90 95

Ala Pro Glu Ile Val His Glu Asp Leu Lys Met Gly Ser Asp Gly Glu  
 100 105 110

Ser Asp Gln Ala Ser Ala Thr Ser Ser Asp Glu Val Gln Ser Pro Val  
 115 120 125

Arg Val Arg Met Arg Asn His Pro Pro Arg Lys Ile Ser Thr Glu Asp  
 130 135 140

Ile Asn Lys Arg Leu Ser Leu Pro Ala Asp Ile Arg Leu Pro Glu Gly  
 145 150 155 160

Tyr Leu Glu Lys Leu Thr Leu Asn Ser Pro Ile Phe Asp Lys Pro Leu  
 165 170 175

Ser Arg Arg Leu Arg Arg Val Ser Leu Ser Glu Ile Gly Phe Gly Lys  
 180 185 190

Leu Glu Thr Tyr Ile Lys Leu Asp Lys Leu Gly Glu Gly Thr Tyr Ala  
 195 200 205

Thr Val Tyr Lys Gly Lys Ser Lys Leu Thr Asp Asn Leu Val Ala Leu  
 210 215 220

Lys Glu Ile Arg Leu Glu His Glu Glu Gly Ala Pro Cys Thr Ala Ile  
 225 230 235 240

Arg Glu Val Ser Leu Leu Lys Asp Leu Lys His Ala Asn Ile Val Thr  
 245 250 255

Leu His Asp Ile Ile His Thr Glu Lys Ser Leu Thr Leu Val Phe Glu

442

260	265	270
Tyr Leu Asp Lys Asp Leu Lys Gln Tyr Leu Asp Asp Cys Gly Asn Ile		
275	280	285
Ile Asn Met His Asn Val Lys Leu Phe Leu Phe Gln Leu Leu Arg Gly		
290	295	300
Leu Ala Tyr Cys His Arg Xaa Lys Val Leu His Arg Asp Leu Lys Pro		
305	310	315
Gln Asn Leu Leu Ile Asn Glu Arg Gly Glu Leu Lys Leu Ala Asp Phe		
325	330	335
Gly Leu Ala Arg Ala Lys Ser Ile Pro Thr Lys Thr Tyr Ser Asn Glu		
340	345	350
Val Val Thr Leu Trp Tyr Arg Pro Pro Asp Ile Leu Leu Gly Ser Thr		
355	360	365
Asp Tyr Ser Thr Gln Ile Asp Met Trp Gly Val Gly Cys Ile Phe Tyr		
370	375	380
Glu Met Ala Thr Gly Arg Pro Leu Phe Pro Gly Ser Thr Val Glu Glu		
385	390	395
Gln Leu His Phe Ile Phe Arg Ile Leu Gly Thr Pro Thr Glu Glu Thr		
405	410	415
Trp Pro Gly Ile Leu Ser Asn Glu Glu Phe Lys Thr Tyr Asn Tyr Pro		
420	425	430
Lys Tyr Arg Ala Glu Ala Leu Leu Ser His Ala Pro Arg Leu Asp Ser		
435	440	445
Asp Gly Ala Asp Leu Leu Thr Lys Leu Leu Gln Phe Glu Gly Arg Asn		
450	455	460
Arg Ile Ser Ala Glu Asp Ala Met Lys His Pro Phe Phe Leu Ser Leu		
465	470	475
Gly Glu Arg Ile His Lys Leu Pro Asp Thr Thr Ser Ile Phe Ala Leu		
485	490	495
Lys Glu Ile Gln Leu Gln Lys Glu Ala Ser Leu Arg Ser Ser Ser Met		
500	505	510
Pro Asp Ser Gly Arg Pro Ala Phe Arg Val Val Asp Thr Glu Phe		
515	520	525

443

<210> 491  
 <211> 125  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (125)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 491  
 Cys Thr Arg Ala His Pro Lys Asn Leu Val Glu Lys Gly Ile Leu Thr  
   1                  5                  10                  15  
 Thr Glu Lys Gln Asn Phe Leu Leu Phe Asp Met Thr Thr His Pro Val  
                   20                  25                  30  
 Thr Asn Thr Thr Glu Lys Gln Arg Leu Val Lys Lys Leu Gln Asp Ser  
           35                  40                  45  
 Val Leu Glu Arg Trp Val Asn Asp Pro Gln Arg Met Asp Lys Arg Thr  
       50                  55                  60  
 Leu Ala Leu Leu Val Leu Ala His Ser Ser Asp Val Leu Glu Asn Val  
   65                  70                  75                  80  
 Phe Ser Ser Leu Thr Asp Asp Lys Tyr Asp Val Ala Met Asn Arg Ala  
           85                  90                  95  
 Lys Asp Leu Val Glu Leu Asp Pro Glu Val Glu Gly Thr Lys Pro Ser  
       100                  105                  110  
 Ala Thr Glu Met Ile Trp Ala Val Leu Ala Ala Phe Xaa  
       115                  120                  125

<210> 492  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (3)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (49)

444

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 492

Val	Ser	Xaa	Ser	Ile	Leu	Ala	Leu	Leu	Phe	Asn	Thr	Asp	Ala	Leu	Phe
1				5					10					15	

Ser	Arg	Val	Tyr	Glu	Ser	Leu	Ser	Asp	Asn	His	Gly	Leu	Gln	Glu	Gln
			20					25					30		

Thr	Val	Glu	Lys	Leu	Phe	Phe	Gln	Trp	Lys	Ser	Trp	Val	Gln	Glu	Met
		35					40					45			

Xaa	Gly	Xaa	Leu	Lys
				50

<210> 493

<211> 82

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids



445

&lt;400&gt; 493

Pro Gly Phe Phe Phe Gln Met Leu Val His Thr Tyr Ser Ser Met Asp  
 1 5 10 15

Arg His Asp Gly Val Pro Ser His Ser Ser Arg Leu Ser Gln Leu Gly  
 20 25 30

Ser Val Ser Gln Gly Pro Tyr Ser Ser Ala Pro Pro Leu Ser His Thr  
 35 40 45

Pro Ser Ser Asp Phe Gln Pro Pro Tyr Phe Pro Xaa Pro Tyr Gln Pro  
 50 55 60

Leu Pro Xaa Xaa Gln Ser Gln Asp Pro Tyr Ser His Val Xaa Xaa Pro  
 65 70 75 80

Tyr Pro

&lt;210&gt; 494

&lt;211&gt; 290

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 494

Tyr Lys Asp Trp Leu Thr Lys Met Ser Gly Lys His Asp Val Gly Ala  
 1 5 10 15

Tyr Met Leu Met Tyr Lys Gly Ala Asn Arg Thr Glu Thr Val Thr Ser  
 20 25 30

Phe Arg Lys Arg Glu Ser Lys Val Pro Ala Asp Leu Leu Lys Arg Ala  
 35 40 45

Phe Val Arg Met Ser Thr Ser Pro Glu Ala Phe Leu Ala Leu Arg Ser  
 50 55 60

His Phe Ala Ser Ser His Ala Leu Ile Cys Ile Ser His Trp Ile Leu  
 65 70 75 80

Gly Ile Gly Asp Arg His Leu Asn Asn Phe Met Val Ala Met Glu Thr  
 85 90 95

Gly Gly Val Ile Gly Ile Asp Phe Gly His Ala Phe Gly Ser Ala Thr  
 100 105 110

Gln Phe Leu Pro Val Pro Glu Leu Met Pro Phe Arg Leu Thr Arg Gln  
 115 120 125

446

Phe Ile Asn Leu Met Leu Pro Met Lys Glu Thr Gly Leu Met Tyr Ser  
 130 135 140

Ile Met Val His Ala Leu Arg Ala Phe Arg Ser Asp Pro Gly Leu Leu  
 145 150 155 160

Thr Asn Thr Met Asp Val Phe Val Lys Glu Pro Ser Phe Asp Trp Lys  
 165 170 175

Asn Phe Glu Gln Lys Met Leu Lys Lys Gly Gly Ser Trp Ile Gln Glu  
 180 185 190

Ile Asn Val Ala Glu Lys Asn Trp Tyr Pro Arg Gln Lys Ile Cys Tyr  
 195 200 205

Ala Lys Arg Lys Leu Ala Gly Ala Asn Pro Ala Val Ile Thr Cys Asp  
 210 215 220

Glu Leu Leu Leu Gly His Glu Lys Ala Pro Ala Phe Arg Asp Tyr Val  
 225 230 235 240

Ala Val Ala Arg Gly Ser Lys Asp His Asn Ile Arg Ala Gln Glu Pro  
 245 250 255

Glu Ser Gly Leu Ser Glu Glu Thr Gln Val Lys Cys Leu Met Asp Gln  
 260 265 270

Ala Thr Asp Pro Asn Ile Leu Gly Arg Thr Trp Glu Gly Trp Glu Pro  
 275 280 285

Trp Met  
 290

<210> 495

<211> 156

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (148)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 495

Cys Gln Ser His Pro Leu Pro Gly Gly Pro Ala Cys Pro Cys Leu Ala  
 1 5 10 15

Cys His Ile Thr Leu Leu Phe Gly Arg Pro Trp Leu Ile Lys Glu Val

447

	20		25		30
Leu Val Val Ser Gln Ala Lys Trp Asn Leu Glu Thr Val Lys Lys Val					
35		40		45	
Gln Ile Thr Leu Asn Cys Ile Gln Glu Val His Phe Phe Pro Ile Val					
50		55		60	
Arg Gly Ser Trp Ser Leu Arg Asp Ala Arg Leu Glu Ser Asp Tyr Ile					
65		70		75	80
Ile Ile Gln Asn Gly Asn Ser Gln Gly Asn Ala Phe Phe His Phe Ile					
	85		90		95
Arg Phe Phe Tyr Pro His Cys Thr Pro Ser Pro Ser Pro Leu Pro Ile					
	100		105		110
Trp Met Ala Ser Gln Lys Leu Gly Pro Ser Pro Pro Cys Leu Gly Gly					
	115		120		125
Gly Gln Ser Pro Leu Thr Ala Glu Ala Ala Leu Leu Ser Ser Ala Val					
	130		135		140
Leu Pro Leu Xaa Lys Cys Leu Gln Arg Val Met Ser					
145		150		155	

&lt;210&gt; 496

&lt;211&gt; 251

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (42)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 496

Glu Glu Leu Leu Arg Ala Gln Glu Ala Pro Gly Gln Ala Glu Pro Pro
1 5 10 15

Ala Ala Ala Glu Val Gln Gly Ala Gly Asn Glu Asn Glu Pro Arg Glu
20 25 30

Ala Asp Lys Ser His Pro Glu Gln Arg Xaa Leu Arg Pro Arg Leu Cys
35 40 45

Thr Met Lys Lys Gly Pro Ser Gly Tyr Gly Phe Asn Leu His Ser Asp
50 55 60

448

Lys Ser Lys Pro Gly Gln Phe Ile Arg Ser Val Asp Pro Asp Ser Pro  
 65 70 75 80  
 Ala Glu Ala Ser Gly Leu Arg Ala Gln Asp Arg Ile Val Glu Val Asn  
 85 90 95  
 Gly Val Cys Met Glu Gly Lys Gln His Gly Asp Val Val Ser Ala Ile  
 100 105 110  
 Arg Ala Gly Gly Asp Glu Thr Lys Leu Leu Val Val Asp Arg Glu Thr  
 115 120 125  
 Asp Glu Phe Phe Lys Lys Cys Arg Val Ile Pro Ser Gln Glu His Leu  
 130 135 140  
 Asn Gly Pro Leu Pro Val Pro Phe Thr Asn Gly Glu Ile Gln Lys Glu  
 145 150 155 160  
 Asn Ser Arg Glu Ala Leu Ala Glu Ala Ala Leu Glu Ser Pro Arg Pro  
 165 170 175  
 Ala Leu Val Arg Ser Ala Ser Ser Asp Thr Ser Glu Glu Leu Asn Ser  
 180 185 190  
 Gln Asp Ser Pro Pro Lys Gln Asp Ser Thr Ala Pro Ser Ser Thr Ser  
 195 200 205  
 Ser Ser Asp Pro Ile Leu Asp Phe Asn Ile Ser Leu Ala Met Ala Lys  
 210 215 220  
 Glu Arg Ala His Gln Lys Arg Ser Ser Lys Arg Ala Pro Gln Met Asp  
 225 230 235 240  
 Trp Ser Lys Lys Asn Glu Leu Phe Ser Asn Leu  
 245 250

&lt;210&gt; 497

&lt;211&gt; 48

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 497

Asn Gly Ala Glu Ala Val Ser Thr Glu Ala Lys Met Thr Ala Phe Pro  
 1 5 10 15  
 Asp Trp Pro Trp Leu Phe His Thr Leu Cys Asp Pro Cys Pro Met Thr  
 20 25 30  
 Leu Trp Leu Thr Leu Pro Glu Ala Met Thr Thr Ala Ala Phe Cys His

449

35

40

45

&lt;210&gt; 498

&lt;211&gt; 373

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (337)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (372)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 498

Gly	Thr	Arg	Gly	Ser	Arg	Ala	Ser	Gly	Val	Cys	Ala	Arg	Gly	Cys	Leu
1				5					10					15	

Asp	Ser	Ala	Gly	Pro	Trp	Thr	Met	Ser	Arg	Ala	Leu	Arg	Pro	Pro	Leu
			20					25					30		

Pro	Pro	Leu	Cys	Phe	Phe	Leu	Leu	Leu	Leu	Ala	Ala	Ala	Gly	Ala	Arg
		35						40					45		

Ala	Gly	Gly	Tyr	Glu	Thr	Cys	Pro	Thr	Val	Gln	Pro	Asn	Met	Leu	Asn
	50					55					60				

Val	His	Leu	Leu	Pro	His	Thr	His	Asp	Asp	Val	Gly	Trp	Leu	Lys	Thr
65					70					75					80

Val	Asp	Gln	Tyr	Phe	Tyr	Gly	Ile	Lys	Asn	Asp	Ile	Gln	His	Ala	Gly
			85						90					95	

Val	Gln	Tyr	Ile	Leu	Asp	Ser	Val	Ile	Ser	Ala	Leu	Leu	Ala	Asp	Pro
			100					105					110		

Thr	Arg	Arg	Phe	Ile	Tyr	Val	Glu	Ile	Ala	Phe	Phe	Ser	Arg	Trp	Trp
		115					120						125		

His	Gln	Gln	Thr	Asn	Ala	Thr	Gln	Glu	Val	Val	Arg	Asp	Leu	Val	Arg
	130					135					140				

Gln	Gly	Arg	Leu	Glu	Phe	Ala	Asn	Gly	Gly	Trp	Val	Met	Asn	Asp	Glu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

450

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145              150              155              160
Ala Ala Thr His Tyr Gly Ala Ile Val Asp Gln Met Thr Leu Gly Leu
              165              170              175
Arg Phe Leu Glu Asp Thr Phe Gly Asn Asp Gly Arg Pro Arg Val Ala
              180              185              190
Trp His Ile Asp Pro Phe Gly His Ser Arg Glu Gln Ala Ser Leu Phe
              195              200              205
Ala Gln Met Gly Phe Asp Gly Phe Phe Phe Gly Arg Leu Asp Tyr Gln
              210              215              220
Asp Lys Trp Val Arg Met Gln Lys Leu Glu Met Glu Gln Val Trp Arg
225              230              235              240
Ala Ser Thr Ser Leu Lys Pro Pro Thr Ala Asp Leu Phe Thr Gly Val
              245              250              255
Leu Pro Asn Gly Tyr Asn Pro Pro Arg Asn Leu Cys Trp Asp Val Leu
              260              265              270
Cys Val Asp Gln Pro Leu Val Glu Asp Pro Arg Ser Pro Glu Tyr Asn
              275              280              285
Ala Lys Glu Leu Val Asp Tyr Phe Leu Asn Val Ala Thr Ala Gln Gly
              290              295              300
Arg Tyr Tyr Arg Thr Asn His Thr Val Met Thr Met Gly Ser Asp Phe
305              310              315              320
Gln Tyr Glu Asn Ala Asn Met Trp Phe Lys Asn Leu Asp Lys Leu Ile
              325              330              335
Xaa Leu Val Asn Ala Gln Gly Lys Arg Lys Gln Cys Pro Cys Ser Leu
              340              345              350
Leu His Pro Arg Leu Leu Pro Leu Gly Ala Glu Gln Gly Gln Pro His
              355              360              365
Leu Val Ser Xaa Thr
              370

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&lt;210&gt; 499

&lt;211&gt; 238

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

451

&lt;400&gt; 499

Ala Leu Pro Gly Pro Asp Trp His Gly Ala Gly Ala Ala Asp Arg Gly  
 1 5 10 15  
 Pro Ala Ala Pro Pro Arg Pro Gly Pro Cys Ala Tyr Ala Ala His Gly  
 20 25 30  
 Arg Gly Ala Leu Ala Glu Ala Ala Arg Arg Cys Leu His Asp Ile Ala  
 35 40 45  
 Leu Ala His Arg Ala Ala Thr Ala Ala Arg Pro Pro Ala Pro Pro Pro  
 50 55 60  
 Ala Pro Gln Pro Pro Ser Pro Thr Pro Ser Pro Pro Arg Pro Thr Leu  
 65 70 75 80  
 Ala Arg Glu Asp Asn Glu Glu Asp Glu Asp Glu Pro Thr Glu Thr Glu  
 85 90 95  
 Thr Ser Gly Glu Gln Leu Gly Ile Ser Asp Asn Gly Gly Leu Phe Val  
 100 105 110  
 Met Asp Glu Asp Ala Thr Leu Gln Asp Leu Pro Pro Phe Cys Glu Ser  
 115 120 125  
 Asp Pro Glu Ser Thr Asp Asp Gly Ser Leu Ser Glu Glu Thr Pro Ala  
 130 135 140  
 Gly Pro Pro Thr Cys Ser Val Pro Pro Ala Ser Ala Leu Pro Thr Gln  
 145 150 155 160  
 Gln Tyr Ala Lys Ser Leu Pro Val Ser Val Pro Val Trp Gly Phe Lys  
 165 170 175  
 Glu Lys Arg Thr Glu Ala Arg Ser Ser Asp Glu Glu Asn Gly Pro Pro  
 180 185 190  
 Ser Ser Pro Asp Leu Asp Arg Ile Ala Ala Ser Met Arg Ala Leu Val  
 195 200 205  
 Leu Arg Glu Ala Glu Asp Thr Gln Val Phe Gly Asp Leu Pro Arg Pro  
 210 215 220  
 Arg Leu Asn Thr Ser Asp Phe Gln Lys Leu Lys Arg Lys Tyr  
 225 230 235

&lt;210&gt; 500

&lt;211&gt; 198

&lt;212&gt; PRT

452

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (94)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (156)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 500

Asn	Ser	Ala	Glu	Leu	Ser	Pro	Gly	Leu	Cys	Ser	Pro	Thr	Pro	Thr	Glu
1				5					10					15	

Ala	Arg	Ala	Gly	Asp	Ala	Gly	Pro	Ala	Ala	Arg	Ser	Arg	Lys	Gln	Asn
			20					25					30		

Pro	Gln	Ser	Pro	Pro	Cys	Cys	Cys	Val	Asp	Asp	Thr	Trp	Ala	Gln	Ala
		35					40					45			

Glu	Val	Gly	Pro	Val	Thr	Ser	Cys	Thr	Gly	Phe	Val	Glu	Gly	Ser	Ser
	50					55					60				

Arg	Thr	Gly	Gly	Met	Gly	Ser	Ala	Cys	Ile	Lys	Val	Thr	Lys	Tyr	Phe
65					70					75					80

Leu	Phe	Leu	Phe	Asn	Leu	Ile	Phe	Phe	Ile	Leu	Gly	Ala	Xaa	Ile	Leu
				85					90					95	

Gly	Phe	Gly	Val	Trp	Ile	Leu	Ala	Asp	Lys	Ser	Ser	Phe	Ile	Ser	Val
			100					105					110		

Leu	Gln	Thr	Ser	Ser	Ser	Ser	Leu	Arg	Met	Gly	Ala	Tyr	Val	Phe	Ile
		115					120					125			

Gly	Val	Gly	Ala	Val	Thr	Met	Leu	Met	Gly	Phe	Leu	Gly	Cys	Ile	Gly
	130					135					140				

Ala	Val	Asn	Glu	Val	Arg	Cys	Leu	Leu	Gly	Leu	Xaa	Phe	Ala	Phe	Leu
145					150					155					160

Leu	Leu	Ile	Leu	Ile	Ala	Gln	Val	Thr	Ala	Gly	Ala	Leu	Phe	Tyr	Phe
			165						170					175	

Asn	Met	Gly	Lys	Val	Ser	Pro	Ser	Leu	Pro	Pro	Ser	Ser	Leu	Gly	Trp
			180					185					190		

Thr	Asn	His	Gly	Gly	Asp
			195		



453

<210> 501  
 <211> 169  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (165)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 501  
 Ser Ser Ala Ser Thr Asn Met Ser Arg Gly Ser Ser Ala Gly Phe Asp  
     1                    5                    10                    15  
 Arg His Ile Thr Ile Phe Ser Pro Glu Gly Arg Leu Tyr Gln Val Glu  
                     20                    25                    30  
 Tyr Ala Phe Lys Ala Ile Asn Gln Gly Gly Leu Thr Ser Val Ala Val  
                     35                    40                    45  
 Arg Gly Lys Asp Cys Ala Val Ile Val Thr Gln Lys Lys Val Pro Asp  
     50                    55                    60  
 Lys Leu Leu Asp Ser Ser Thr Val Thr His Leu Phe Lys Ile Thr Glu  
     65                    70                    75                    80  
 Asn Ile Gly Cys Val Met Thr Gly Met Thr Ala Asp Ser Arg Ser Gln  
                     85                    90                    95  
 Val Gln Arg Ala Arg Tyr Glu Ala Ala Asn Trp Lys Tyr Lys Tyr Gly  
                     100                    105                    110  
 Tyr Glu Ile Pro Val Asp Met Leu Cys Lys Arg Ile Ala Asp Ile Ser  
                     115                    120                    125  
 Gln Val Tyr Thr Gln Asn Ala Glu Met Arg Pro Leu Gly Cys Cys Met  
                     130                    135                    140  
 Ile Leu Ile Gly Ile Asp Glu Glu Gln Gly Pro Gln Val Tyr Lys Cys  
     145                    150                    155                    160  
 Asp Pro Ala Gly Xaa Tyr Cys Gly Val  
                     165

<210> 502  
 <211> 507

454

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (10)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (361)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (461)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 502

Val	Arg	Gln	Leu	Cys	Arg	Pro	Ala	Glu	Xaa	Asp	Ser	Val	Met	Ala	Glu
1				5					10					15	

Gln	Val	Ala	Leu	Ser	Arg	Thr	Gln	Val	Cys	Gly	Ile	Leu	Arg	Glu	Glu
			20					25					30		

Leu	Phe	Gln	Gly	Asp	Ala	Phe	His	Gln	Ser	Asp	Thr	His	Ile	Phe	Ile
		35					40					45			

Ile	Met	Gly	Ala	Ser	Gly	Asp	Leu	Ala	Lys	Lys	Lys	Ile	Tyr	Pro	Thr
	50					55					60				

Ile	Trp	Trp	Leu	Phe	Arg	Asp	Gly	Leu	Leu	Pro	Glu	Asn	Thr	Phe	Ile
65					70					75					80

Val	Gly	Tyr	Ala	Arg	Ser	Arg	Leu	Thr	Val	Ala	Asp	Ile	Arg	Lys	Gln
				85					90					95	

Ser	Glu	Pro	Phe	Phe	Lys	Ala	Thr	Pro	Glu	Glu	Lys	Leu	Lys	Leu	Glu
			100					105					110		

Asp	Phe	Phe	Ala	Arg	Asn	Ser	Tyr	Val	Ala	Gly	Gln	Tyr	Asp	Asp	Ala
		115					120					125			

Ala	Ser	Tyr	Gln	Arg	Leu	Asn	Ser	His	Met	Asn	Ala	Leu	His	Leu	Gly
	130					135					140				

Ser	Gln	Ala	Asn	Arg	Leu	Phe	Tyr	Leu	Ala	Leu	Pro	Pro	Thr	Val	Tyr
145					150					155					160

Glu	Ala	Val	Thr	Lys	Asn	Ile	His	Glu	Ser	Cys	Met	Ser	Gln	Ile	Gly
				165					170					175	

455

Trp Asn Arg Ile Ile Val Glu Lys Pro Phe Gly Arg Asp Leu Gln Ser  
 180 185 190  
 Ser Asp Arg Leu Ser Asn His Ile Ser Ser Leu Phe Arg Glu Asp Gln  
 195 200 205  
 Ile Tyr Arg Ile Asp His Tyr Leu Gly Lys Glu Met Val Gln Asn Leu  
 210 215 220  
 Met Val Leu Arg Phe Ala Asn Arg Ile Phe Gly Pro Ile Trp Asn Arg  
 225 230 235 240  
 Asp Asn Ile Ala Cys Val Ile Leu Thr Phe Lys Glu Pro Phe Gly Thr  
 245 250 255  
 Glu Gly Arg Gly Gly Tyr Phe Asp Glu Phe Gly Ile Ile Arg Asp Val  
 260 265 270  
 Met Gln Asn His Leu Leu Gln Met Leu Cys Leu Val Ala Met Glu Lys  
 275 280 285  
 Pro Ala Ser Thr Asn Ser Asp Asp Val Arg Asp Glu Lys Val Lys Val  
 290 295 300  
 Leu Lys Cys Ile Ser Glu Val Gln Ala Asn Asn Val Val Leu Gly Gln  
 305 310 315 320  
 Tyr Val Gly Asn Pro Asp Gly Glu Gly Glu Ala Thr Lys Gly Tyr Leu  
 325 330 335  
 Asp Asp Pro Thr Val Pro Arg Gly Ser Thr Thr Ala Thr Phe Ala Ala  
 340 345 350  
 Val Val Leu Tyr Val Glu Asn Glu Xaa Trp Asp Gly Val Pro Phe Ile  
 355 360 365  
 Leu Arg Cys Gly Lys Ala Leu Asn Glu Arg Lys Ala Glu Val Arg Leu  
 370 375 380  
 Gln Phe His Asp Val Ala Gly Asp Ile Phe His Gln Gln Cys Lys Arg  
 385 390 395 400  
 Asn Glu Leu Val Ile Arg Val Gln Pro Asn Glu Ala Val Tyr Thr Lys  
 405 410 415  
 Met Met Thr Lys Lys Pro Gly Met Phe Phe Asn Pro Glu Glu Ser Glu  
 420 425 430  
 Leu Asp Leu Thr Tyr Gly Asn Arg Tyr Lys Asn Val Lys Leu Pro Asp  
 435 440 445

456

Ala Tyr Glu Arg Leu Ile Leu Asp Val Phe Cys Gly Xaa Gln Met His  
 450 455 460

Phe Val Arg Arg Thr Ser Ser Val Arg Pro Gly Val Phe Ser Pro His  
 465 470 475 480

Cys Cys Thr Arg Leu Ser Trp Arg Ser Pro Ser Pro Ser Pro Ile Phe  
 485 490 495

Met Ala Ala Glu Ala Pro Arg Arg Gln Thr Ser  
 500 505

<210> 503

<211> 260

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 503

Gly Pro Glu Val Leu Pro Glu Pro Arg Val Pro Arg Glu Ala Leu Ala  
 1 5 10 15

Phe Ile Ile Arg Ser Phe Gly Gly Glu Val Ser Trp Asp Lys Ser Leu  
 20 25 30

Cys Ile Gly Ala Thr Tyr Asp Val Thr Asp Ser Arg Ile Thr His Gln  
 35 40 45

Ile Val Asp Arg Pro Gly Gln Gln Thr Ser Val Ile Gly Arg Cys Tyr  
 50 55 60

Val Gln Pro Gln Xaa Val Phe Asp Ser Val Asn Ala Arg Leu Leu Leu  
 65 70 75 80

Pro Val Ala Glu Tyr Phe Ser Gly Val Gln Leu Pro Pro His Leu Ser  
 85 90 95

Pro Phe Val Thr Glu Lys Glu Gly Asp Tyr Val Pro Pro Glu Lys Leu  
 100 105 110

Lys Leu Leu Ala Leu Gln Arg Gly Glu Asp Pro Gly Asn Leu Asn Glu  
 115 120 125

Ser Glu Glu Glu Glu Glu Asp Asp Asn Asn Glu Gly Asp Gly Asp

457

130	135	140
Glu Glu Gly Glu Asn Glu Glu Glu Glu Glu Asp Ala Glu Ala Gly Ser		
145	150	155 160
Glu Lys Glu Glu Glu Ala Arg Leu Ala Ala Leu Glu Glu Gln Arg Met		
	165	170 175
Glu Gly Lys Lys Pro Arg Val Met Ala Gly Thr Leu Lys Leu Glu Asp		
	180	185 190
Lys Gln Arg Leu Ala Gln Glu Glu Glu Ser Glu Ala Lys Arg Leu Ala		
	195	200 205
Ile Met Met Met Lys Lys Arg Glu Lys Tyr Leu Tyr Gln Lys Ile Met		
	210	215 220
Phe Gly Lys Arg Arg Lys Ile Arg Glu Ala Asn Lys Leu Ala Glu Lys		
	225	230 235 240
Arg Lys Ala His Asp Glu Ala Val Arg Ser Glu Lys Lys Ala Lys Lys		
	245	250 255
Ala Arg Pro Glu		
	260	

&lt;210&gt; 504

&lt;211&gt; 424

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (292)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (342)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 504

Leu Leu Gln Arg Cys Tyr Ala Phe Pro Gly His Arg Leu Ala His Ser
1 5 10 15

Gly Ser Asp Leu Ser Leu Leu Val Pro Glu Ile Glu Asp Met Tyr Ser
20 25 30

Ser Pro Tyr Leu Arg Pro Ser Glu Ser Pro Ile Thr Val Glu Val Asn
---

458

35	40	45
Cys Thr Asn Pro Gly Thr Arg Tyr Cys Trp Met Ser Thr Gly Leu Tyr		
50	55	60
Ile Pro Gly Arg Gln Ile Ile Glu Val Ser Leu Pro Glu Ala Ala Ala		
65	70	75
Ser Ala Asp Leu Lys Ile Gln Ile Gly Cys His Thr Asp Asp Leu Thr		
85	90	95
Arg Ala Ser Lys Leu Phe Arg Gly Pro Leu Val Ile Asn Arg Cys Cys		
100	105	110
Leu Asp Lys Pro Thr Lys Ser Ile Thr Cys Leu Trp Gly Gly Leu Leu		
115	120	125
Tyr Ile Ile Val Pro Gln Asn Ser Lys Leu Gly Ser Val Pro Val Thr		
130	135	140
Val Lys Gly Ala Val His Ala Pro Tyr Tyr Lys Leu Gly Glu Thr Thr		
145	150	155
Leu Glu Glu Trp Lys Arg Arg Ile Gln Glu Asn Pro Gly Pro Trp Gly		
165	170	175
Glu Leu Ala Thr Asp Asn Ile Ile Leu Thr Val Pro Thr Ala Asn Leu		
180	185	190
Arg Thr Leu Glu Asn Pro Glu Pro Leu Leu Arg Leu Trp Asp Glu Val		
195	200	205
Met Gln Ala Val Ala Arg Leu Gly Ala Glu Pro Phe Pro Leu Arg Leu		
210	215	220
Pro Gln Arg Ile Val Ala Asp Val Gln Ile Ser Val Gly Trp Met His		
225	230	235
Ala Gly Tyr Pro Ile Met Cys His Leu Glu Ser Val Gln Glu Leu Ile		
245	250	255
Asn Glu Lys Leu Ile Arg Thr Lys Gly Leu Trp Gly Pro Val His Glu		
260	265	270
Leu Gly Arg Asn Gln Gln Arg Gln Glu Trp Glu Phe Pro Pro His Thr		
275	280	285
Thr Glu Ala Xaa Cys Asn Leu Trp Cys Val Tyr Val His Glu Thr Val		
290	295	300
Leu Gly Ile Pro Arg Ser Arg Ala Asn Ile Ala Leu Trp Pro Pro Val		

459

[illegible]

<210> 505

<211> 70

<212> PRT

<213> Homo sapiens

**<220>**

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

**<220>**

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

**<220>**

**<221> SITE**

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

**<220>**

**<221> SITE**

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 505

460

Leu His Gln Ser Leu Leu His Leu Glu Lys Thr Asn Glu Arg Lys Ser  
 1 5 10 15  
 Ile Phe Leu Ile His Tyr Pro Asn Asn Arg Thr Pro Tyr Arg Asn  
 20 25 30  
 Tyr Tyr His Tyr Val Ser Lys His Tyr Ile Pro Ile Thr Tyr Pro Thr  
 35 40 45  
 Xaa Ser Ile Ile Asp Xaa Ile Ser Ile Pro Thr Met Ile Ser Ala Leu  
 50 55 60  
 Asn Xaa Gln Asn Lys Xaa  
 65 70

&lt;210&gt; 506

&lt;211&gt; 434

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (69)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (135)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (363)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 506

Ser Thr His Ala Ser Ala His Ala Ser Val Ser Thr Ala Ala Ala Ala  
 1 5 10 15  
 Ala Leu Ala Ala Ala Val Lys Ala Lys His Leu Ala Ala Val Glu  
 20 25 30  
 Glu Arg Lys Ile Lys Ser Leu Val Ala Leu Leu Val Glu Thr Gln Met  
 35 40 45  
 Lys Lys Leu Glu Ile Lys Leu Arg His Phe Glu Glu Leu Glu Thr Ile  
 50 55 60

Met Asp Arg Glu Xaa Glu Ala Leu Glu Tyr Gln Arg Gln Gln Leu Leu



461

65		70		75		80
Ala Asp Arg Gln Ala Phe His Met Glu Gln Leu Lys Tyr Ala Glu Met						
	85			90		95
Arg Ala Arg Gln Gln His Phe Gln Gln Met His Gln Gln Gln Gln						
	100		105		110	
Pro Pro Pro Ala Leu Pro Pro Gly Ser Gln Pro Ile Pro Pro Thr Gly						
	115		120		125	
Ala Ala Gly Pro Pro Ala Xaa His Gly Leu Ala Val Ala Pro Ala Ser						
	130		135		140	
Val Val Pro Ala Pro Ala Gly Ser Gly Ala Pro Pro Gly Ser Leu Gly						
145		150		155		160
Pro Ser Glu Gln Ile Gly Gln Ala Gly Ser Thr Ala Gly Pro Gln Gln						
	165		170		175	
Gln Gln Pro Ala Gly Ala Pro Gln Pro Gly Ala Val Pro Pro Gly Val						
	180		185		190	
Pro Pro Pro Gly Pro His Gly Pro Ser Pro Phe Pro Asn Gln Gln Thr						
	195		200		205	
Pro Pro Ser Met Met Pro Gly Ala Val Pro Gly Ser Gly His Pro Gly						
	210		215		220	
Val Ala Gly Asn Ala Pro Leu Gly Leu Pro Phe Gly Met Pro Pro Pro						
225		230		235		240
Pro Pro Pro Pro Ala Pro Ser Ile Ile Pro Phe Gly Ser Leu Ala Asp						
	245		250		255	
Ser Ile Ser Ile Asn Leu Pro Ala Pro Pro Asn Leu His Gly His His						
	260		265		270	
His His Leu Pro Phe Ala Pro Gly Thr Leu Pro Pro Pro Asn Leu Pro						
	275		280		285	
Val Ser Met Ala Asn Pro Leu His Pro Asn Leu Pro Ala Thr Thr Thr						
	290		295		300	
Met Pro Ser Ser Leu Pro Leu Gly Pro Gly Leu Gly Ser Ala Ala Ala						
305		310		315		320
Gln Ser Pro Ala Ile Val Ala Ala Val Gln Gly Asn Leu Leu Pro Ser						
	325		330		335	
Ala Ser Pro Leu Pro Asp Pro Gly Thr Pro Leu Pro Pro Asp Pro Thr						

462

340							345					350				
Ala	Pro	Ser	Pro	Arg	His	Gly	His	Pro	Cys	Xaa	His	Leu	His	Ser	Glu	
355							360					365				
Glu	Pro	Ala	Arg	His	Leu	Ser	Pro	Ser	Pro	Pro	Val	Asp	Ile	Thr	Val	
370							375					380				
Pro	Gly	Thr	Ala	Leu	Pro	Pro	Pro	Leu	Gly	Pro	Ser	Pro	Ala	Trp	Arg	
385							390					395				400
Val	His	His	Tyr	Val	Arg	Lys	Ala	Pro	Ser	Ala	Pro	Pro	Lys	Pro	Ser	
405							410					415				
Pro	Cys	Leu	Thr	Glu	Ala	Cys	Ile	Phe	Ile	Ser	Asp	Tyr	Ser	Arg	Thr	
420							425					430				
Ser Val																

<210> 507

<211> 303

<212> PRT

<213> Homo sapiens

**<220>**

<221> SITE

<222> (165)

<223> Xaa equals any of the naturally occurring L-amino acids

**<220>**

**<221> SITE**

<222> (280)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 507

Glu Tyr Val Phe Pro Ala Lys Lys Lys Leu Gln Glu Tyr Arg Val Leu  
1 5 10 15

Ile Thr Thr Leu Ile Thr Ala Gly Ser Trp Ser Arg Pro Ser Phe Pro  
20 25 30

Leu Ile Thr Ser His Thr Ser Ser Ser Met Arg Leu Ala Thr Ala Trp  
35 40 45

Ser Leu Arg Ser Leu Val Ala Ile Ala Gly Leu Met Glu Val Lys Glu  
50 55 60

Thr Gly Asp Pro Gly Gly Gln Leu Val Leu Ala Gly Asp Pro Arg Gln

463

65		70		75		80
Leu Gly Pro Val	Leu Arg Ser Pro	Leu Thr Gln Lys His	Gly Leu Gly			
	85	90	95			
Tyr Ser Leu Leu	Glu Arg Leu Leu	Thr Tyr Asn Ser	Leu Tyr Lys Lys			
	100	105	110			
Gly Pro Asp Gly	Tyr Asp Pro Gln	Phe Ile Thr Lys	Leu Leu Arg Asn			
	115	120	125			
Tyr Arg Ser His	Pro Thr Ile Leu	Asp Ile Pro Asn	Gln Leu Tyr Tyr			
	130	135	140			
Glu Gly Glu Leu	Gln Ala Cys Ala	Asp Val Val Asp	Arg Glu Arg Phe			
145	150	155	160			
Cys Arg Trp Ala	Xaa Leu Pro Arg	Gln Gly Phe Pro	Ile Ile Phe His			
	165	170	175			
Gly Val Met Gly	Lys Asp Glu Arg	Glu Gly Asn Ser	Pro Ser Phe Phe			
	180	185	190			
Asn Pro Glu Glu	Ala Ala Thr Val	Thr Ser Tyr Leu	Lys Leu Leu Leu			
	195	200	205			
Ala Pro Ser Ser	Lys Lys Gly Lys	Ala Arg Leu Ser	Pro Arg Ser Val			
	210	215	220			
Gly Val Ile Ser	Pro Tyr Arg Lys	Gln Val Glu Lys	Ile Arg Tyr Cys			
225	230	235	240			
Ile Thr Lys Leu	Asp Arg Glu Leu	Arg Gly Leu Asp	Asp Ile Lys Asp			
	245	250	255			
Leu Lys Val Gly	Ser Val Glu Glu	Phe Gln Gly Gln	Glu Arg Ser Val			
	260	265	270			
Ile Leu Ile Ser	Thr Val Arg Xaa	Ala Arg Ala Leu	Cys Ser Trp Ile			
	275	280	285			
Trp Thr Leu Ile	Trp Val Ser Leu	Arg Thr Pro Arg	Gly Ser Met			
	290	295	300			

&lt;210&gt; 508

&lt;211&gt; 250

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

464

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (16)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 508

Glu	Gln	Tyr	Leu	Pro	Leu	Thr	Glu	Glu	Glu	Leu	Glu	Lys	Glu	Ala	Xaa
1				5					10					15	

Lys	Val	Glu	Gly	Phe	Asp	Leu	Val	Gln	Lys	Pro	Ser	Tyr	Tyr	Val	Arg
		20						25					30		

Leu	Gly	Ser	Leu	Ser	Thr	Lys	Leu	His	Ser	Arg	Ala	Tyr	Gln	Gln	Ala
		35					40						45		

Leu	Ser	Arg	Val	Lys	Glu	Ala	Lys	Gln	Lys	Ser	Gln	Gln	Thr	Ile	Ser
	50					55					60				

Gln	Leu	His	Ser	Thr	Val	His	Leu	Ile	Glu	Phe	Ala	Arg	Lys	Asn	Val
65					70					75					80

Tyr	Ser	Ala	Asn	Gln	Lys	Ile	Gln	Asp	Ala	Gln	Asp	Lys	Leu	Tyr	Leu
			85						90					95	

Ser	Trp	Val	Glu	Trp	Lys	Arg	Ser	Ile	Gly	Tyr	Asp	Asp	Thr	Asp	Glu
		100						105					110		

Ser	His	Cys	Ala	Glu	His	Ile	Glu	Ser	Arg	Thr	Leu	Ala	Ile	Ala	Arg
		115					120					125			

Asn	Leu	Thr	Gln	Gln	Leu	Gln	Thr	Thr	Cys	His	Thr	Leu	Leu	Ser	Asn
	130						135					140			

Ile	Gln	Gly	Val	Pro	Gln	Asn	Ile	Gln	Asp	Gln	Ala	Lys	His	Met	Gly
145					150					155					160

Val	Met	Ala	Gly	Asp	Ile	Tyr	Ser	Val	Phe	Arg	Asn	Ala	Ala	Ser	Phe
			165						170					175	

Lys	Glu	Val	Ser	Asp	Ser	Leu	Leu	Thr	Ser	Ser	Lys	Gly	Gln	Leu	Gln
		180						185					190		

Lys	Met	Lys	Glu	Ser	Leu	Asp	Asp	Val	Met	Asp	Tyr	Leu	Val	Asn	Asn
	195						200					205			

Thr	Pro	Leu	Asn	Trp	Leu	Val	Gly	Pro	Phe	Tyr	Pro	Gln	Leu	Thr	Glu
	210					215					220				

Ser	Gln	Asn	Ala	Gln	Asp	Gln	Gly	Ala	Glu	Met	Asp	Lys	Ser	Ser	Gln
225					230					235					240

465

Glu Thr Gln Arg Ser Glu His Lys Thr His  
245 250

<210> 509

<211> 98

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

&lt;222&gt; (97)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 509

His Glu Leu Trp Gly Cys Gly Pro Val Thr Pro Arg Arg Thr Ala Pro  
1 5 10 15

Ser Gly Trp Ala Gln Ala Pro Leu Ser Asp Thr Ala Gln Val Tyr Met  
20 25 30

Glu Leu Gln Gly Leu Val Asp Pro Gln Ile Gln Leu Pro Leu Leu Ala  
35 40 45

Ala Arg Ser Thr Ser Cys Arg Ser Ser Leu Ile Ala Ser Gln Pro Gly  
50 55 60

Pro His Gln Lys Gly Arg Gln Gly Leu Arg Gly Asn Lys Ser Phe Leu  
65 70 75 80

Pro Ser Ser Trp Asn Cys Gln Asn Trp Thr Arg Gln Pro Leu Thr Ser  
85 90 95

Xaa Ser

<210> 510

<211> 392

<212> PRT

<213> Homo sapiens

<400> 510

Gly Ala Met Arg Gly Asp Arg Gly Arg Gly Arg Gly Gly Arg Phe Gly  
1 5 10 15

Ser Arg Gly Gly Pro Gly Gly Gly Phe Arg Pro Phe Val Pro His Ile  
20 25 30

466

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Pro Phe Asp Phe Tyr Leu Cys Glu Met Ala Phe Pro Arg Val Lys Pro
    35                      40                      45

Ala Pro Asp Glu Thr Ser Phe Ser Glu Ala Leu Leu Lys Arg Asn Gln
    50                      55                      60

Asp Leu Ala Pro Asn Ser Ala Glu Gln Ala Ser Ile Leu Ser Leu Val
    65                      70                      75                      80

Thr Lys Ile Asn Asn Val Ile Asp Asn Leu Ile Val Ala Pro Gly Thr
    85                      90                      95

Phe Glu Val Gln Ile Glu Glu Val Arg Gln Val Gly Ser Tyr Lys Lys
    100                     105                     110

Gly Thr Met Thr Thr Gly His Asn Val Ala Asp Leu Val Val Ile Leu
    115                     120                     125

Lys Ile Leu Pro Thr Leu Glu Ala Val Ala Ala Leu Gly Asn Lys Val
    130                     135                     140

Val Glu Ser Leu Arg Ala Gln Asp Pro Ser Glu Val Leu Thr Met Leu
    145                     150                     155                     160

Thr Asn Glu Thr Gly Phe Glu Ile Ser Ser Ser Asp Ala Thr Val Lys
    165                     170                     175

Ile Leu Ile Thr Thr Val Pro Pro Asn Leu Arg Lys Leu Asp Pro Glu
    180                     185                     190

Leu His Leu Asp Ile Lys Val Leu Gln Ser Ala Leu Ala Ala Ile Arg
    195                     200                     205

His Ala Arg Trp Phe Glu Glu Asn Ala Ser Gln Ser Thr Val Lys Val
    210                     215                     220

Leu Ile Arg Leu Leu Lys Asp Leu Arg Ile Arg Phe Pro Gly Phe Glu
    225                     230                     235                     240

Pro Leu Thr Pro Trp Ile Leu Asp Leu Leu Gly His Tyr Ala Val Met
    245                     250                     255

Asn Asn Pro Thr Arg Gln Pro Leu Ala Leu Asn Val Ala Tyr Arg Arg
    260                     265                     270

Cys Leu Gln Ile Leu Ala Ala Gly Leu Phe Leu Pro Gly Ser Val Gly
    275                     280                     285

Ile Thr Asp Pro Cys Glu Ser Gly Asn Phe Arg Val His Thr Val Met
    290                     295                     300

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467

Thr Leu Glu Gln Gln Asp Met Val Cys Tyr Thr Ala Gln Thr Leu Val  
305 310 315 320

Arg Ile Leu Ser His Gly Gly Phe Arg Lys Ile Leu Gly Gln Glu Gly  
325 330 335

Asp Ala Ser Tyr Leu Ala Ser Glu Ile Ser Thr Trp Asp Gly Val Ile  
340 345 350

Val Thr Pro Ser Glu Lys Ala Tyr Glu Lys Pro Pro Glu Lys Lys Glu  
355 360 365

Gly Glu Glu Glu Glu Glu Asn Thr Glu Glu Pro Pro Gln Gly Glu Glu  
370 375 380

Glu Glu Ser Met Glu Thr Gln Glu  
385 390

&lt;210&gt; 511

&lt;211&gt; 72

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 511

His Gly Gly Gly Lys Gly Arg Gln Val Gly Leu His Ser Val Gln Arg  
1 5 10 15

Pro Ala Arg Arg Glu Thr Ala Ala Ser Trp Gly Leu Cys Val Lys Ile  
20 25 30

Pro Asp Leu Gly Val Ala Phe Val Tyr Lys Met Gln Glu Gly Lys Pro  
35 40 45

Val Pro Asp Ser Ser Arg Gln His Ala Gln Leu Ser Gly Ser Pro Val  
50 55 60

Ser Gln Gly Leu Ser Leu Pro Leu  
65 70

&lt;210&gt; 512

&lt;211&gt; 181

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (135)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 512

Gly	Trp	Cys	Ser	Cys	Ala	His	Ser	Ser	Ala	Trp	Pro	Gly	Xaa	Trp	Gly
1				5					10					15	

Ala	Ser	Gly	Ile	Pro	Gln	Gln	Ala	Pro	Met	Thr	Val	Cys	Asp	Gln	Ala
			20					25					30		

Xaa	Pro	Val	Thr	Phe	Leu	Leu	Leu	His	Leu	Glu	Gly	Gly	Asp	Ile	His
		35					40					45			

Thr	Val	Ser	His	Leu	Ser	Ser	Pro	Pro	Pro	Gly	Val	Ala	His	Arg	Met
	50					55					60				

Gly	Thr	Gly	Gly	Ser	Arg	Asn	Pro	Asn	Pro	Ala	Trp	Leu	Gly	Gly	Ala
65					70					75					80

Leu	Leu	Val	Arg	Gly	Arg	Pro	Ala	Ser	Leu	Ala	Pro	Trp	Gly	His	Ser
				85					90					95	

Trp	Lys	Arg	Gly	Leu	Ala	His	Ala	Pro	Leu	Arg	Ala	Gly	Thr	Cys	Thr
			100					105					110		

Gly	His	Thr	Arg	His	Ser	Ala	Cys	Trp	Asn	Arg	Trp	Leu	Cys	Ser	Cys
		115					120						125		

Ser	Gly	Pro	Arg	Ala	Ala	Xaa	Leu	Arg	Pro	Cys	Thr	Ser	His	Met	His
	130					135					140				

Trp	Thr	Arg	Ala	Glu	Thr	Pro	Val	Cys	Tyr	Arg	Ala	Leu	Val	Leu	Cys
145					150					155					160

Gly	Pro	Gly	Ala	Thr	Ala	Gln	Ser	Ser	Gln	Trp	Arg	Ser	Thr	Pro	Leu
				165					170						175

Asp	Ser	Ile	Phe	Phe
				180



469

<210> 513  
 <211> 202  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (15)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 513  
 Leu Gly Asp Thr Ile Glu Gly Thr Pro Ala Gly Thr Val Pro Xaa Phe  
   1                  5                  10                  15  
 Pro Gly Arg Pro Thr Arg Ala Ile Met Ala Gln Asp Gln Gly Glu Lys  
                   20                  25                  30  
 Glu Asn Pro Met Arg Glu Leu Arg Ile Arg Lys Leu Cys Leu Asn Ile  
           35                  40                  45  
 Cys Val Gly Glu Ser Gly Asp Arg Leu Thr Arg Ala Ala Lys Val Leu  
   50                  55                  60  
 Glu Gln Leu Thr Gly Gln Thr Pro Val Phe Ser Lys Ala Arg Tyr Thr  
   65                  70                  75                  80  
 Val Arg Ser Phe Gly Ile Arg Arg Asn Glu Lys Ile Ala Val His Cys  
                   85                  90                  95  
 Thr Val Arg Gly Ala Lys Ala Glu Glu Ile Leu Glu Lys Gly Leu Lys  
                   100                  105                  110  
 Val Arg Glu Tyr Glu Leu Arg Lys Asn Asn Phe Ser Asp Thr Gly Asn  
           115                  120                  125  
 Phe Gly Phe Gly Ile Gln Glu His Ile Asp Leu Gly Ile Lys Tyr Asp  
   130                  135                  140  
 Pro Ser Ile Gly Ile Tyr Gly Leu Asp Phe Tyr Val Val Leu Gly Arg  
  145                  150                  155                  160  
 Pro Gly Phe Ser Ile Ala Asp Lys Lys Arg Arg Thr Gly Cys Ile Gly  
           165                  170                  175  
 Ala Lys His Arg Ile Ser Lys Glu Glu Ala Met Arg Trp Phe Gln Gln  
           180                  185                  190  
 Lys Tyr Asp Gly Ile Ile Leu Pro Gly Lys  
   195                  200

470

<210> 514  
 <211> 63  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (2)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (5)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (16)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (35)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 514  
 Xaa Xaa Lys Asn Xaa Ile Thr Pro Lys Glu Glu Ser Pro Pro His Xaa  
     1                    5                    10                    15  
 Ala Leu Leu Ser Lys Cys Leu Leu Thr Pro Ser Pro Lys Met Pro Pro  
                     20                    25                    30  
 Ile Leu Xaa Val Met Ala Ala Leu Gly Phe Glu Arg Arg Glu Phe Gly  
                     35                    40                    45  
 Ser Thr Ser Val Glu Arg Val Gln Ser Arg Gln Leu Asp Cys Phe  
     50                    55                    60

<210> 515  
 <211> 218  
 <212> PRT  
 <213> Homo sapiens

471

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (151)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (209)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (211)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 515

Ser	Leu	Ala	Arg	Gly	Cys	Gln	Arg	Pro	Asp	Ala	Val	Leu	Tyr	Ala	Arg
1				5					10					15	

His	Tyr	Asn	Ile	Pro	Val	Ile	His	Ala	Phe	Arg	Arg	Ala	Val	Asp	Asp
		20					25						30		

Pro	Gly	Leu	Val	Phe	Asn	Gln	Leu	Pro	Lys	Met	Leu	Tyr	Pro	Glu	Tyr
	35					40					45				

His	Lys	Val	His	Gln	Met	Met	Arg	Glu	Gln	Ser	Ile	Leu	Ser	Pro	Ser
50					55					60					

Pro	Tyr	Glu	Gly	Tyr	Arg	Ser	Leu	Pro	Arg	His	Gln	Leu	Leu	Cys	Phe
65				70					75					80	

Lys	Glu	Asp	Cys	Gln	Ala	Val	Phe	Gln	Asp	Leu	Glu	Gly	Val	Glu	Lys
		85						90						95	

Val	Phe	Gly	Val	Ser	Leu	Val	Leu	Val	Leu	Ile	Gly	Ser	His	Pro	Asp
	100					105						110			

Leu	Ser	Phe	Leu	Pro	Gly	Ala	Gly	Ala	Asp	Phe	Ala	Val	Asp	Pro	Asp
	115				120							125			

Gln	Pro	Leu	Ser	Ala	Lys	Arg	Asn	Pro	Ile	Asp	Val	Asp	Pro	Phe	Thr
	130				135					140					

Tyr	Gln	Ser	Thr	Arg	Gln	Xaa	Gly	Leu	Tyr	Ala	Met	Gly	Pro	Leu	Ala
145					150				155					160	

Gly	Asp	Asn	Phe	Val	Arg	Phe	Val	Gln	Gly	Gly	Ala	Leu	Ala	Val	Ala
		165						170						175	

Ser	Ser	Leu	Leu	Arg	Lys	Glu	Gln	Asn	His	Leu	His	Arg	Gln	Pro	Trp
		180					185						190		

472

Ser Ser Leu Arg Gly Ile His Pro Leu Ile Asp Leu Lys Ser Gly Val  
195 200 205

Xaa Pro Xaa Leu Val Lys Leu Thr Ala Gln  
210 215

&lt;210&gt; 516

&lt;211&gt; 41

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (22)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 516

Asn Gly Arg Pro Asp Ser Thr Gly Pro Ala Ile Pro Gly Ile Leu Ser  
1 5 10 15

Trp Gly Phe Glu Thr Xaa Leu Arg Asp Arg Glu Thr Asp Pro Arg Asn  
20 25 30

Val Leu Asn Cys Asn Gly Pro His Thr  
35 40

&lt;210&gt; 517

&lt;211&gt; 250

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (118)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (161)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (204)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

473

&lt;400&gt; 517

Gly	Phe	Asn	Arg	Ser	Phe	Cys	Gly	Arg	Asn	Ala	Thr	Val	Tyr	Gly	Lys
1				5					10					15	
Gly	Val	Tyr	Phe	Ala	Arg	Arg	Ala	Ser	Leu	Ser	Val	Gln	Asp	Arg	Tyr
			20					25					30		
Ser	Pro	Pro	Asn	Ala	Asp	Gly	His	Lys	Ala	Val	Phe	Val	Ala	Arg	Val
			35				40					45			
Leu	Thr	Gly	Asp	Tyr	Gly	Gln	Gly	Arg	Arg	Gly	Leu	Arg	Ala	Pro	Pro
	50					55					60				
Leu	Arg	Gly	Pro	Gly	His	Val	Leu	Leu	Arg	Tyr	Asp	Ser	Ala	Val	Asp
65					70					75					80
Cys	Ile	Cys	Gln	Pro	Ser	Ile	Phe	Val	Ile	Phe	His	Asp	Thr	Gln	Ala
				85					90					95	
Leu	Pro	Thr	His	Leu	Ile	Thr	Cys	Glu	Ala	Arg	Ala	Pro	Arg	Phe	Pro
			100					105					110		
Arg	Arg	Pro	Leu	Trp	Xaa	Pro	Gly	Pro	Leu	Pro	Arg	His	Leu	Thr	Glu
		115					120					125			
Gly	Ala	Thr	Leu	Trp	Pro	Pro	Ala	Ser	Gln	Ala	Pro	Ser	Ser	Ala	Gln
	130						135				140				
Ala	Asp	Ala	Pro	Arg	Pro	Gln	Leu	Trp	Pro	Pro	Glu	Leu	Ser	Pro	Gly
145					150					155					160
Xaa	Pro	Cys	Leu	Pro	Leu	Arg	Ala	Pro	Glu	Gly	Gly	Val	Gly	Asp	Gly
			165						170					175	
Gly	Gln	Gln	Arg	Pro	Arg	Gly	Ala	Gly	Leu	Gly	Pro	Ser	Leu	Gly	Arg
			180					185					190		
Pro	His	His	Gln	Gly	Ser	Ala	Glu	Pro	Arg	Arg	Xaa	His	Arg	Pro	Pro
		195					200					205			
Ala	Ala	Pro	Arg	Pro	Arg	Pro	Ser	Arg	Leu	Cys	Cys	Leu	Asn	Lys	Arg
	210					215					220				
Glu	Arg	Glu	Pro	Arg	Arg	Lys	Gly	Pro	Gly	Lys	Lys	Lys	Lys	Lys	Lys
225					230					235					240
Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys						
				245					250						

474

<210> 518  
 <211> 100  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (3)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (7)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 518  
 Asn Pro Xaa Lys Lys Leu Xaa Ile Leu Ile Lys Trp Pro Pro Pro Phe  
   1                  5                  10                  15  
  
 Pro Pro Ser Phe Pro Pro Ser Pro Asn Ser Leu Ser Ser Ser Ser Phe  
                   20                  25                  30  
  
 Pro Pro Pro Leu Ser Leu Phe Ser Pro Ser Phe Thr Phe Leu Ile Ser  
                   35                  40                  45  
  
 Val Lys Leu Glu Arg Phe Glu Ile Pro Ile Lys Val Arg Leu Ser Pro  
   50                  55                  60  
  
 Glu Pro Trp Thr Pro Glu Thr Gly Leu Val Thr Asp Ala Phe Lys Leu  
   65                  70                  75                  80  
  
 Lys Arg Lys Glu Leu Arg Asn His Tyr Leu Lys Asp Ile Glu Arg Met  
                   85                  90                  95  
  
 Tyr Gly Gly Lys  
                   100

<210> 519  
 <211> 60  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (5)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE

475

&lt;222&gt; (17)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 519

His	Glu	Asp	Gly	Xaa	Leu	Met	Gly	Cys	Arg	His	Arg	Trp	His	Pro	Arg
1				5					10					15	

Xaa	Val	Pro	Phe	His	Gln	Thr	Ser	Pro	Lys	Thr	Glu	Leu	Glu	Ser	Thr
			20					25					30		

Ile	Phe	Gly	Ser	Pro	Arg	Leu	Ala	Ser	Gly	Leu	Phe	Pro	Glu	Trp	Gln
		35					40						45		

Ser	Trp	Gly	Arg	Met	Glu	Asn	Leu	Ala	Ser	Tyr	Arg
	50					55					60

&lt;210&gt; 520

&lt;211&gt; 120

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (25)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 520

Ser	His	Pro	Tyr	Ala	Pro	Ser	Cys	Gly	Leu	Arg	Gly	Pro	Gly	Ala	Ala
1				5					10					15	

Ser	Arg	Ala	Arg	Thr	Arg	Glu	Arg	Xaa	Pro	Gln	Ala	Glu	Ala	Glu	Ala
		20						25					30		

Arg	Ser	Thr	Pro	Gly	Pro	Ala	Gly	Ser	Arg	Leu	Gly	Pro	Glu	Thr	Phe
		35					40						45		

Arg	Gln	Arg	Phe	Arg	Gln	Phe	Arg	Tyr	Gln	Asp	Ala	Ala	Gly	Pro	Arg
	50					55					60				

Glu	Ala	Phe	Arg	Gln	Leu	Arg	Glu	Leu	Ser	Arg	Gln	Trp	Leu	Arg	Pro
65					70					75					80

Asp	Ile	Arg	Thr	Lys	Glu	Gln	Ile	Val	Glu	Met	Leu	Val	Gln	Glu	Gln
				85					90					95	

Leu	Leu	Ala	Ile	Leu	Pro	Glu	Ala	Ala	Arg	Ala	Arg	Arg	Ile	Arg	Arg
		100						105						110	

Arg Thr Asp Val Arg Ile Thr Gly

476

115

120

&lt;210&gt; 521

&lt;211&gt; 96

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 521

Gly His Gln Thr Val Ser Pro Ser Thr Gly Ser Arg Val Thr Arg Met  
1 5 10 15

Phe Ser Leu Ile Ser Phe Ser His Val Phe Ile Lys Asp Ile Cys Lys  
20 25 30

Leu Pro Lys Asp Glu Gly Thr Cys Arg Asp Phe Ile Leu Lys Trp Tyr  
35 40 45

Tyr Asp Pro Asn Thr Lys Ser Cys Ala Arg Phe Trp Tyr Gly Gly Cys  
50 55 60

Gly Gly Asn Glu Asn Lys Phe Gly Ser Gln Lys Glu Cys Glu Lys Val  
65 70 75 80

Cys Ala Pro Val Leu Ala Lys Pro Gly Val Ile Ser Val Met Gly Thr  
85 90 95

&lt;210&gt; 522

&lt;211&gt; 122

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (18)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 522

Asn Ser Gly Phe Arg Pro Lys Asn Pro Val Gly Arg Gly Gly Glu Pro  
1 5 10 15

Glu Xaa Cys Gly Gly Ala Gly Gly Leu Gly Cys Thr Leu Val Trp Gly  
20 25 30

Gly Thr Gly Ala Ala Val Val Thr Gly Val Val Trp Leu Leu Pro



477

35	40	45
Asn Gly Gly Val Gly Val Gly Leu Leu Gly Pro Gln Ser Pro Val Gly		
50	55	60
Gly Ser Asp Ser Ala Pro Tyr Ser Leu His Pro Ala Gly Arg Thr Trp		
65	70	75 80
Gly Leu Arg Ser Glu Cys Ile Pro Pro Leu Ser Phe Asn Leu Ser Cys		
	85	90 95
Arg Thr His Ser Gly Pro Gly Ala Arg Leu Gly Glu Ala Gly Pro Asn		
	100	105 110
Tyr Gly Ser Arg Glu Leu Gln Val Pro Thr		
115	120	

&lt;210&gt; 523

&lt;211&gt; 94

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 523

Leu Ile Pro Gln Val Cys Cys Lys His Ser Met Glu Asp Thr Asp Asp		
1	5	10 15
Ser Leu Val Leu Val Phe Leu Ser Ala Val Asn Val Gln Gln Phe Ala		
	20	25 30
Gln Glu Leu Gly Asp His Ile Cys Leu Ser Gly Gln Gly Ser Glu Val		
	35	40 45
His Trp Asn Leu Leu Arg Asn Leu Phe Val Lys Thr Ile Val Asn Asn		
	50	55 60
Tyr Cys Ile Phe Leu Gln Lys Tyr Ile Leu Glu Asn Cys Ile Leu Ser		
	65	70 75 80
Ile Lys Val Phe Leu Cys Lys Lys Lys Lys Lys Lys Leu Val		
	85	90

&lt;210&gt; 524

&lt;211&gt; 93

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

478

&lt;221&gt; SITE

&lt;222&gt; (78)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (86)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (93)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 524

Ser Ala Val Met Gly Arg Lys Lys Lys Lys Gln Leu Lys Pro Trp Cys  
 1 5 10 15

Trp Tyr Cys Asn Arg Asp Phe Asp Asp Glu Lys Ile Leu Ile Gln His  
 20 25 30

Gln Lys Ala Lys His Phe Lys Cys His Ile Cys His Lys Lys Leu Tyr  
 35 40 45

Thr Gly Pro Gly Leu Ala Ile His Cys Met Gln Val His Lys Glu Thr  
 50 55 60

Ile Asp Ala Val Pro Asn Ala Tyr Leu Gly Glu Gln Thr Xaa Ile Gly  
 65 70 75 80

Asn Ile Trp Tyr Gly Xaa Tyr Ser Arg Lys Arg Tyr Xaa  
 85 90

&lt;210&gt; 525

&lt;211&gt; 324

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (323)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 525

Asp Leu Arg Leu Ser Arg Pro Glu Ala Val Glu Ala Glu Ala Met Met  
 1 5 10 15

Ala Ala Met Ala Thr Ala Arg Val Arg Met Gly Pro Arg Cys Ala Gln  
 20 25 30

479

Ala Leu Trp Arg Met Pro Trp Leu Pro Val Phe Leu Ser Leu Ala Ala  
 35 40 45  
 Ala Ala Ala Ala Ala Ala Ala Glu Gln Gln Val Pro Leu Val Leu Trp  
 50 55 60  
 Ser Ser Asp Arg Asp Leu Trp Ala Pro Ala Ala Asp Thr His Glu Gly  
 65 70 75 80  
 His Ile Thr Ser Asp Leu Gln Leu Ser Thr Tyr Leu Asp Pro Ala Leu  
 85 90 95  
 Glu Leu Gly Pro Arg Asn Val Leu Leu Phe Leu Gln Asp Lys Leu Ser  
 100 105 110  
 Ile Glu Asp Phe Thr Ala Tyr Gly Gly Val Phe Gly Asn Lys Gln Asp  
 115 120 125  
 Ser Ala Phe Ser Asn Leu Glu Asn Ala Leu Asp Leu Ala Pro Ser Ser  
 130 135 140  
 Leu Val Leu Pro Ala Val Asp Trp Tyr Ala Val Ser Thr Leu Thr Thr  
 145 150 155 160  
 Tyr Leu Gln Glu Lys Leu Gly Ala Ser Pro Leu His Val Asp Leu Ala  
 165 170 175  
 Thr Leu Arg Glu Leu Lys Leu Asn Ala Ser Leu Pro Ala Leu Leu Leu  
 180 185 190  
 Ile Arg Leu Pro Tyr Thr Ala Ser Ser Gly Leu Met Ala Pro Arg Glu  
 195 200 205  
 Val Leu Thr Gly Asn Asp Glu Val Ile Gly Gln Val Leu Ser Thr Leu  
 210 215 220  
 Lys Ser Glu Asp Val Pro Tyr Thr Ala Ala Leu Thr Ala Val Arg Pro  
 225 230 235 240  
 Ser Arg Val Ala Arg Asp Val Ala Val Val Ala Gly Gly Leu Gly Arg  
 245 250 255  
 Gln Leu Leu Gln Lys Gln Pro Val Ser Pro Val Ile His Pro Pro Val  
 260 265 270  
 Ser Tyr Asn Asp Thr Ala Pro Arg Ile Leu Phe Trp Ala Gln Asn Phe  
 275 280 285  
 Ser Val Ala Tyr Lys Asp Gln Trp Glu Asp Leu Thr Pro Leu Thr Phe  
 290 295 300

480

Gly Val Gln Glu Leu Asn Leu Thr Gly Ser Phe Trp Asn Asp Ser Phe  
 305 310 315 320

Ala Ser Xaa His

<210> 526

<211> 66

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 526

Phe Xaa Val Ser Trp Thr Trp Lys Gln Val Ser Glu Phe Pro Gly Asp  
 1 5 10 15

Gln Arg Asp Glu Val Leu Gln Leu Pro Pro Ser Ser Cys Asn Leu Val  
 20 25 30

Ser Ser Gly Ala Gly Gly Glu Pro Glu Lys Leu Ala Ser Tyr Ile Thr  
 35 40 45

Ser Leu Trp Leu Phe Phe Ile Cys Lys Thr Arg Ile Ile Leu Asn Cys  
 50 55 60

Lys Gly  
 65

<210> 527

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 527

Asn Thr Gln Leu Trp Phe Leu Cys Phe Pro Asn Cys Lys Ala Ala Asp  
 1 5 10 15

481

Asn Lys Thr Pro Gly Phe His Val Ser Ser Ala Met Ser Thr Leu Thr  
                   20                  25                  30

Gln Ile Leu Lys Gln Asn Ser Xaa Asn Ala Val Leu Arg Ile Gln Leu  
                   35                  40                  45

Leu Leu Lys Pro Ile Ser Ile Cys Ile Ile Thr Thr Asn Ile  
                   50                  55                  60

&lt;210&gt; 528

&lt;211&gt; 122

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (80)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (104)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (105)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 528

Tyr Asn Lys Ile Glu Ile Met His Leu Val Met Trp Pro Thr Ser Leu  
       1                  5                  10                  15

Leu Thr Thr Met Asp Cys Phe Gln Gln Gln Leu Ile Phe Trp Ser Val  
                   20                  25                  30

Leu Arg Gly Ala Cys Met Ser Phe Val Thr Ser Gly Ser Thr Pro Ala  
                   35                  40                  45

Val Lys Tyr Cys Phe His Leu Pro Leu Gln Lys Ala Ser Cys Leu Leu  
                   50                  55                  60

Thr Ser Thr Ala Lys Ala Leu Phe Trp Thr Gly Tyr Leu Ile Lys Xaa  
       65                  70                  75                  80

Ile Ser Val Arg Leu Cys Ser Val Ile Pro Ser Glu Pro Arg Phe Val  
                   85                  90                  95

Ser Lys Ala Thr Val Leu Ser Xaa Xaa Pro Cys Val Trp Gly Gln Val

482

100	105	110
Ala Ile Pro Pro Met Ser Leu Val Ile Leu		
115	120	

<210> 529  
 <211> 182  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (25)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 529
Asp Arg Thr Arg Leu Ser Gln Ala Ser Thr Pro Thr Pro Val Cys Trp
1 5 10 15
Gly Leu Leu Gln Pro Pro Pro Trp Xaa Glu Ala Trp Tyr Arg Leu Thr
20 25 30
His Arg Gly Leu Cys Gln Val Arg Phe Cys Arg Trp Ser Gln Ala Leu
35 40 45
Pro Glu Ala Arg Gly Gly Ala Trp Ala Gly Ser Pro Gly Glu Gly Gln
50 55 60
Ala Gly Pro Arg Leu His Thr His Ile Gln Pro Ala Gly Leu Ser Ala
65 70 75 80
Val Leu Ser Pro Ser Leu Ser Ser Pro Ser Ser Ala Val Thr Leu Ser
85 90 95
Ser Pro Ser Leu Pro Ala Ser Pro Pro Ala Ala Pro Pro Val Lys Arg
100 105 110
Met Thr Lys Asp Leu Ser Tyr Ala Gly Ser Lys Asn Gln Asn Phe Leu
115 120 125
Leu Ala Phe Ser Phe Val Ala Ser Pro Ala Pro Ala Leu Pro Val Ser
130 135 140
His Pro Gly Pro Arg Leu Glu Ala Ser Leu His Leu Ser Tyr Cys Phe
145 150 155 160
Lys Pro Lys Phe Thr Val Ser Val Gly Gly Gln Asp Leu Leu Ser Pro
165 170 175

483

Pro Leu Leu His Pro Pro  
180

<210> 530

<211> 183

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (80)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 530

Ala Leu Val Leu Gly Xaa Lys Ser Val Arg Met Ala Ser Ser Arg Met  
1 5 10 15

Thr Arg Arg Asp Pro Leu Thr Asn Lys Val Ala Leu Val Thr Ala Ser  
20 25 30

Thr Asp Gly Ile Gly Phe Ala Ser Pro Gly Val Trp Pro Arg Thr Gly  
35 40 45

Pro Arg Gly Arg Gln Gln Pro Glu Ala Ala Glu Cys Gly Pro Gly Gly  
50 55 60

Gly Thr Leu Gln Gly Glu Gly Leu Ser Val Thr Gly Thr Cys Xaa Xaa  
65 70 75 80

Xaa Gly Lys Ala Glu Asp Arg Glu Arg Leu Val Ala Thr Ala Val Lys  
85 90 95

Leu His Gly Gly Ile Asp Ile Leu Val Ser Asn Ala Ala Val Asn Pro  
100 105 110

484

Phe Phe Gly Ser Ile Met Asp Val Thr Glu Glu Val Trp Asp Lys Leu  
           115                                  120                                  125  
 Trp Met Asp Lys Glu Lys Glu Glu Ser Met Lys Glu Thr Leu Arg Ile  
           130                                  135                                  140  
 Arg Arg Leu Gly Glu Pro Glu Asp Cys Ala Gly Ile Val Ser Phe Leu  
           145                                  150                                  155                                  160  
 Cys Ser Glu Asp Ala Ser Tyr Ile Thr Gly Glu Thr Val Val Val Gly  
                                   165                                  170                                  175  
 Gly Gly Thr Pro Ser Arg Leu  
                                   180

&lt;210&gt; 531

&lt;211&gt; 129

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (89)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (103)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 531

Asn Ser Ala Pro Leu Ser Pro Thr Gly Leu Gly Gln Gly His Thr Gly  
   1                                  5                                  10                                  15  
 His Val Arg Phe Leu Ala Ala Val Gln Leu Pro Asp Gly Phe Asn Leu  
           20                                  25                                  30  
 Leu Cys Pro Thr Pro Pro Pro Pro Pro Asp Thr Gly Pro Glu Lys Leu  
           35                                  40                                  45  
 Pro Ser Leu Glu His Arg Asp Ser Pro Trp His Arg Gly Pro Ala Pro  
           50                                  55                                  60  
 Ala Arg Pro Lys Met Leu Val Ile Ser Gly Gly Asp Gly Tyr Glu Asp  
           65                                  70                                  75                                  80  
 Phe Arg Leu Ser Ser Gly Gly Gly Xaa Ala Val Arg Leu Trp Val Glu  
                                   85                                  90                                  95



485

Thr Thr Ala Gln Thr Thr Xaa Ser Cys Gly Gly Cys Asp Pro Val Cys  
                   100                  105                  110

Arg Gly Pro Gly Leu Ala Arg Pro Pro Ala Phe Ser Leu Leu Ala Ser  
           115                  120                  125

Pro

<210> 532

<211> 91

<212> PRT

<213> Homo sapiens

<400> 532

Gly Ala Ile Ala Ser Ser Gly Pro Thr Gly Gly Arg Val Arg Lys His  
   1                  5                  10                  15

Gln Leu Leu Pro Gly Ala Val Arg Glu Trp Glu Gln Leu Trp Ala Pro  
           20                  25                  30

His Phe Arg Gln Val Leu Pro Lys Pro Ser Asp Ala Val Arg Pro Gly  
           35                  40                  45

Leu Pro Val Val Leu Phe Arg Leu Cys Phe Gln Asn Ala Phe Ile Ser  
   50                  55                  60

Ser Val Pro Phe Gly Pro His Lys Ser Pro Trp Gly Val Gly Gly Gly  
   65                  70                  75                  80

Leu Cys Arg His Pro His Phe Lys Ala Gly Ser  
           85                  90

<210> 533

<211> 67

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 533

Asn Leu Cys Gln Val Gln Pro Thr Arg Leu Tyr Ser Ser Leu His Ser  
   1                  5                  10                  15

486

Gly Leu His His Val Arg Gln Val Thr Gln Lys Ser Tyr Lys Val Ser  
                     20                    25                    30  
 Thr Ser Gly Pro Arg Ala Phe Ser Ser Arg Ser Tyr Thr Ser Gly Pro  
                     35                    40                    45  
 Gly Ser Arg Ile Ser Ser Ser Ala Phe Ser Arg Val Gly Gly Xaa Ser  
                     50                    55                    60  
 Gly Gly Ala  
                     65

&lt;210&gt; 534

&lt;211&gt; 144

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (140)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (141)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 534

Phe Asn Arg Arg Tyr Pro Lys Ile Gln Phe Ser Leu Ser Thr Gly Pro  
                     1                    5                    10                    15  
 Ser Gly Thr Met Leu Asp Gly Val Leu Glu Gly Lys Leu Asn Ala Ala  
                     20                    25                    30  
 Phe Ile Asp Gly Pro Ile Asn His Thr Ala Ile Asp Gly Ile Pro Val  
                     35                    40                    45  
 Tyr Arg Glu Glu Leu Met Ile Val Thr Pro Gln Gly Tyr Ala Pro Val  
                     50                    55                    60  
 Thr Arg Ala Ser Gln Val Asn Gly Ser Asn Ile Tyr Ala Phe Arg Ala  
                     65                    70                    75                    80  
 Asn Cys Ser Tyr Arg Arg His Phe Glu Ser Trp Phe His Ala Asp Gly  
                     85                    90                    95  
 Ala Ala Pro Gly Thr Ile His Glu Met Glu Ser Tyr His Gly Met Leu  
                     100                    105                    110

487

Ala Cys Val Ile Ala Gly Ala Gly Ile Ala Leu Ile Pro Arg Ser Met  
 115 120 125

Leu Glu Ser Met Pro Gly His His Gln Val Glu Xaa Xaa Ala Val Ser  
 130 135 140

&lt;210&gt; 535

&lt;211&gt; 175

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 535

Arg Ala Pro Ala Arg Ile Ser Gly Gly Gly Ser Ala Met Val Gly Gly  
 1 5 10 15

Gly Gly Val Gly Gly Gly Leu Leu Glu Asn Ala Asn Pro Leu Ile Tyr  
 20 25 30

Gln Arg Ser Gly Glu Arg Pro Val Thr Ala Gly Glu Glu Asp Glu Gln  
 35 40 45

Val Pro Asp Ser Ile Asp Ala Arg Glu Ile Phe Asp Leu Ile Arg Ser  
 50 55 60

Ile Asn Asp Pro Glu His Pro Leu Thr Leu Glu Glu Leu Asn Val Val  
 65 70 75 80

Glu Gln Val Arg Val Gln Val Ser Asp Pro Glu Ser Thr Val Ala Val  
 85 90 95

Ala Phe Thr Pro Thr Ile Pro His Cys Ser Met Ala Thr Leu Ile Gly  
 100 105 110

Leu Ser Ile Lys Val Lys Leu Leu Arg Ser Leu Pro Gln Arg Phe Lys  
 115 120 125

Met Asp Val His Ile Thr Pro Gly Thr His Ala Ser Glu His Ala Val  
 130 135 140

Asn Lys Gln Leu Ala Asp Lys Glu Arg Val Ala Ala Ala Leu Glu Asn  
 145 150 155 160

Thr His Leu Leu Glu Val Val Asn Gln Cys Leu Ser Ala Arg Ser  
 165 170 175

488

&lt;210&gt; 536

&lt;211&gt; 148

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 536

Gly Trp His Arg Thr His His Arg Gly Arg His Gln Ala Arg Glu Ala  
 1 5 10 15

Glu Glu Glu Ala Trp Ala Ala Ala Glu Pro Ile Lys Lys Val Arg Lys  
 20 25 30

Ser Leu Ala Leu Asp Ile Val Asp Glu Asp Val Lys Leu Met Met Ser  
 35 40 45

Thr Leu Pro Lys Ser Leu Ser Leu Pro Thr Thr Ala Pro Ser Asn Ser  
 50 55 60

Ser Ser Leu Thr Leu Ser Gly Ile Lys Glu Asp Asn Ser Leu Leu Asn  
 65 70 75 80

Gln Gly Phe Leu Gln Ala Lys Pro Glu Lys Ala Ala Val Ala Gln Lys  
 85 90 95

Pro Arg Ser His Phe Thr Thr Pro Ala Pro Met Ser Ser Ala Trp Lys  
 100 105 110

Thr Val Ala Cys Gly Gly Thr Arg Asp Gln Leu Phe Met Gln Glu Lys  
 115 120 125

Ala Arg Gln Leu Leu Gly Arg Leu Lys Pro Ser His Thr Ser Arg Thr  
 130 135 140

Leu Ile Leu Ser  
 145

&lt;210&gt; 537

&lt;211&gt; 70

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (41)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

489

&lt;221&gt; SITE

&lt;222&gt; (42)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 537

Arg	Pro	Thr	Arg	Ser	Ala	Trp	Trp	Gly	Arg	Leu	Leu	Ser	Arg	Val	Ser
1				5				10					15		

Pro	Gln	Pro	Arg	Pro	Ala	Ser	Pro	Ser	Val	Ser	Thr	Arg	Asn	Gln	Leu
			20					25					30		

Pro	Glu	Ala	Arg	Arg	Gly	Val	Glu	Xaa	Xaa	Glu	Cys	Glu	Glu	Thr	Ala
		35					40					45			

Ala	Ser	Ala	Glu	Arg	Ala	Gly	Pro	Pro	Arg	Ala	Leu	Val	Phe	Gly	Ala
	50					55					60				

Gln	Ser	Arg	Ser	Pro	Gly
65					70

&lt;210&gt; 538

&lt;211&gt; 206

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 538

Gly	Glu	Val	Ser	Ala	Ser	Gly	Ile	Ala	Arg	Arg	Gly	Gly	Pro	Met	Ala
1				5					10				15		

Pro	Leu	Gly	Gly	Ala	Pro	Arg	Leu	Val	Leu	Leu	Phe	Ser	Gly	Lys	Arg
		20					25						30		

Lys	Ser	Gly	Lys	Asp	Phe	Val	Thr	Glu	Ala	Leu	Gln	Ser	Arg	Leu	Gly
	35						40					45			

Ala	Asp	Val	Cys	Ala	Val	Leu	Arg	Leu	Ser	Gly	Pro	Leu	Lys	Glu	Gln
	50					55					60				

Tyr	Ala	Gln	Glu	His	Gly	Leu	Asn	Phe	Gln	Arg	Leu	Leu	Asp	Thr	Ser
65					70				75					80	

Thr	Tyr	Lys	Glu	Ala	Phe	Arg	Lys	Asp	Met	Ile	Arg	Trp	Gly	Glu	Glu
			85						90					95	

Lys	Arg	Gln	Ala	Asp	Pro	Gly	Phe	Phe	Cys	Arg	Lys	Ile	Val	Glu	Gly
		100					105					110			

Ile	Ser	Gln	Pro	Ile	Trp	Leu	Val	Ser	Asp	Thr	Arg	Arg	Val	Ser	Asp
		115				120						125			

490

Ile Gln Trp Phe Arg Glu Ala Tyr Gly Ala Val Thr Gln Thr Val Arg  
130 135 140

Val Val Ala Leu Glu Gln Ser Arg Gln Gln Arg Gly Trp Val Phe Thr  
145 150 155 160

Pro Gly Val Asp Asp Ala Glu Ser Glu Cys Gly Leu Asp Asn Phe Gly  
165 170 175

Asp Phe Asp Trp Val Ile Glu Asn His Gly Val Glu Gln Arg Leu Glu  
180 185 190

Glu Gln Leu Glu Asn Leu Ile Glu Phe Ile Arg Ser Arg Leu  
195 200 205

&lt;210&gt; 539

&lt;211&gt; 350

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 539

Ser Thr Leu Ile Ala Phe Ile Val Ile Ser Thr Leu Phe Pro Leu Leu  
1 5 10 15

Asp Met Thr Glu Ile Tyr Phe Ser Leu Leu Asp Glu Ile Val Asp Thr  
20 25 30

Leu Gly Glu Gly Ala Phe Gly Lys Val Val Glu Cys Ile Asp His Lys  
35 40 45

Ala Gly Gly Arg His Val Ala Val Lys Ile Val Lys Asn Val Asp Arg  
50 55 60

Tyr Cys Glu Ala Ala Arg Ser Glu Ile Gln Val Leu Glu His Leu Asn  
65 70 75 80

Thr Thr Asp Pro Asn Ser Thr Phe Arg Cys Val Gln Met Leu Glu Trp  
85 90 95

Phe Glu His His Gly His Ile Cys Ile Val Phe Glu Leu Leu Gly Leu  
100 105 110

Ser Thr Tyr Asp Phe Ile Lys Glu Asn Gly Phe Leu Pro Phe Arg Leu  
115 120 125

Asp His Ile Arg Lys Met Ala Tyr Gln Ile Cys Lys Ser Val Asn Phe  
130 135 140

491

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Leu His Ser Asn Lys Leu Thr His Thr Asp Leu Lys Pro Glu Asn Ile
145              150              155              160

Leu Phe Val Gln Ser Asp Tyr Thr Glu Ala Tyr Asn Pro Lys Ile Lys
              165              170              175

Arg Asp Glu Arg Thr Leu Ile Asn Pro Asp Ile Lys Val Val Asp Phe
              180              185              190

Gly Ser Ala Thr Tyr Asp Asp Glu His His Ser Thr Leu Val Ser Thr
              195              200              205

Arg His Tyr Arg Ala Pro Glu Val Ile Leu Ala Leu Gly Trp Ser Gln
              210              215              220

Pro Cys Asp Val Trp Ser Ile Gly Cys Ile Leu Ile Glu Tyr Tyr Leu
225              230              235              240

Gly Phe Thr Val Phe Pro Thr His Asp Ser Lys Glu His Leu Ala Met
              245              250              255

Met Glu Arg Ile Leu Gly Pro Leu Pro Lys His Met Ile Gln Lys Thr
              260              265              270

Arg Lys Arg Lys Tyr Phe His His Asp Arg Leu Asp Trp Asp Glu His
              275              280              285

Ser Ser Ala Gly Arg Tyr Val Ser Arg Arg Cys Lys Pro Leu Lys Glu
              290              295              300

Phe Met Leu Ser Gln Asp Val Glu His Glu Arg Leu Phe Asp Leu Ile
305              310              315              320

Gln Lys Met Leu Glu Tyr Asp Pro Ala Lys Arg Ile Thr Leu Arg Glu
              325              330              335

Ala Leu Lys His Pro Phe Phe Asp Leu Leu Lys Lys Ser Ile
              340              345              350

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&lt;210&gt; 540

&lt;211&gt; 324

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (54)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (56)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (297)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (304)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (305)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (317)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (321)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 540

Gln	Ala	Thr	Met	Gly	Asn	Val	Leu	Ala	Ala	Ser	Ser	Pro	Pro	Ala	Gly
1				5						10				15	

Pro	Pro	Pro	Pro	Pro	Ala	Pro	Ala	Leu	Val	Gly	Leu	Pro	Pro	Pro	Pro
				20				25						30	

Pro	Ser	Pro	Pro	Gly	Phe	Thr	Leu	Pro	Pro	Leu	Gly	Gly	Ser	Leu	Gly
				35				40					45		

Ala	Gly	Thr	Ser	Thr	Xaa	Arg	Xaa	Ser	Glu	Arg	Thr	Pro	Gly	Ala	Ala
				50				55					60		

Thr	Ala	Ser	Ala	Ser	Gly	Ala	Ala	Glu	Asp	Gly	Ala	Cys	Gly	Cys	Leu
				65				70				75			80

Pro	Asn	Pro	Gly	Thr	Phe	Glu	Glu	Cys	His	Arg	Lys	Cys	Lys	Glu	Leu
				85						90				95	

Phe	Pro	Ile	Gln	Met	Glu	Gly	Val	Lys	Leu	Thr	Val	Asn	Lys	Gly	Leu
				100						105				110	



493

Ser Asn His Phe Gln Val Asn His Thr Val Ala Leu Ser Thr Ile Gly  
 115 120 125  
 Glu Ser Asn Tyr His Phe Gly Val Thr Tyr Val Gly Thr Lys Gln Leu  
 130 135 140  
 Ser Pro Thr Glu Ala Phe Pro Val Leu Val Gly Asp Met Asp Asn Ser  
 145 150 155 160  
 Gly Ser Leu Asn Ala Gln Val Ile His Gln Leu Gly Pro Gly Leu Arg  
 165 170 175  
 Ser Lys Met Ala Ile Gln Thr Gln Gln Ser Lys Phe Val Asn Trp Gln  
 180 185 190  
 Val Asp Gly Glu Tyr Arg Gly Ser Asp Phe Thr Ala Ala Val Thr Leu  
 195 200 205  
 Gly Asn Pro Asp Val Leu Val Gly Ser Gly Ile Leu Val Ala His Tyr  
 210 215 220  
 Leu Gln Ser Ile Thr Pro Cys Leu Ala Leu Gly Gly Glu Leu Val Tyr  
 225 230 235 240  
 His Arg Arg Pro Gly Glu Glu Gly Thr Val Met Ser Leu Ala Gly Lys  
 245 250 255  
 Tyr Thr Leu Asn Asn Trp Leu Ala Thr Val Thr Leu Gly Gln Ala Gly  
 260 265 270  
 Met His Ala Thr Tyr Tyr His Lys Ala Ser Asp Gln Leu Gln Val Gly  
 275 280 285  
 Val Glu Phe Glu Ala Ser Thr Arg Xaa Gln Asp Thr Ser Val Ser Xaa  
 290 295 300  
 Xaa Val Pro Ala Trp Asn Leu Pro Lys Gly Gln Pro Xaa Leu Ser Lys  
 305 310 315 320  
 Xaa Leu Leu Gly

&lt;210&gt; 541

&lt;211&gt; 204

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 541

494

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Arg Gly Pro Thr Phe Thr Pro Glu Ile Met Ala Ala Glu Asp Val Val
 1             5             10             15

Ala Thr Gly Ala Asp Pro Ser Asp Leu Glu Ser Gly Gly Leu Leu His
      20             25             30

Glu Ile Phe Thr Ser Pro Leu Asn Leu Leu Leu Leu Gly Leu Cys Ile
      35             40             45

Phe Leu Leu Tyr Lys Ile Val Arg Gly Asp Gln Pro Ala Ala Ser Gly
      50             55             60

Asp Ser Asp Asp Asp Glu Pro Pro Pro Leu Pro Arg Leu Lys Arg Arg
      65             70             75             80

Asp Phe Thr Pro Ala Glu Leu Arg Arg Phe Asp Gly Val Gln Asp Pro
      85             90             95

Arg Ile Leu Met Ala Ile Asn Gly Lys Val Phe Asp Val Thr Lys Gly
      100            105            110

Arg Lys Phe Tyr Gly Pro Glu Gly Pro Tyr Gly Val Phe Ala Gly Arg
      115            120            125

Asp Ala Ser Arg Gly Leu Ala Thr Phe Cys Leu Asp Lys Glu Ala Leu
      130            135            140

Lys Asp Glu Tyr Asp Asp Leu Ser Asp Leu Thr Ala Ala Gln Gln Glu
      145            150            155            160

Thr Leu Ser Asp Trp Glu Ser Gln Phe Thr Phe Lys Tyr His His Val
      165            170            175

Gly Lys Leu Leu Lys Glu Gly Glu Glu Pro Thr Val Tyr Ser Asp Glu
      180            185            190

Glu Glu Pro Lys Asp Glu Ser Ala Arg Lys Asn Asp
      195            200

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&lt;210&gt; 542

&lt;211&gt; 193

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (183)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

495

&lt;400&gt; 542

Pro Ala Tyr Ser Leu Gly Leu Leu Lys Ser Val Leu Asp Gly Gly Gly  
 1 5 10 15

Ala Gly Ala His Gln Ala Arg Ser Asn Pro Ser Cys Met Tyr Pro Gln  
 20 25 30

Gly Thr Phe Val Ile Pro Leu Leu Val Thr Ala His Arg Asp Pro Thr  
 35 40 45

Gln Phe Lys Asp Pro Asp Cys Phe Asn Pro Thr Asn Phe Leu Asp Lys  
 50 55 60

Gly Lys Phe Gln Gly Asn Asp Ala Phe Met Pro Phe Ala Ser Gly Ala  
 65 70 75 80

Gly Arg Gly Gly Arg Gly Pro Ala Trp Thr Gly Ser Gly Val Pro Gly  
 85 90 95

Ala His Cys Ala Pro Val Tyr Pro Ala Lys Gln Met Cys Leu Gly Thr  
 100 105 110

Gly Leu Ala His Ser Gly Ile Phe Leu Phe Leu Thr Ala Thr Leu Gln  
 115 120 125

Arg Phe Cys Leu Leu Pro Val Val Arg Pro Gly Thr Ile Asn Leu Thr  
 130 135 140

Cys Ser Ala Leu Ala Trp Ala Val Ser Pro Gln Thr Ser Ser Ser Ser  
 145 150 155 160

Gln Trp Pro Ala Glu Val Arg Leu His Tyr Gly Gly Leu Thr Gly Pro  
 165 170 175

Gln Thr Ser Ile Pro Ser Xaa Val Asn Lys Gly Pro Lys Leu Gln Lys  
 180 185 190

Lys

&lt;210&gt; 543

&lt;211&gt; 352

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

496

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (154)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (167)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 543

Ser Thr Val Arg Xaa Pro Gly Arg Pro Thr Arg Pro Met Ala Ala Glu  
 1 5 10 15

Glu Pro Gln Gln Gln Lys Gln Glu Pro Leu Gly Ser Asp Ser Glu Val  
 20 25 30

Leu Thr Val Trp Pro Met Met Lys Pro Ser Trp Leu Ser Arg Thr Glu  
 35 40 45

Phe Ser Lys Arg Leu Leu Cys Arg Thr Leu Trp Cys Gln Ser Gly Trp  
 50 55 60

Ser Ser Arg Ser Tyr Thr Arg Ser Met Leu Lys Met Thr Thr Ser Ile  
 65 70 75 80

Asn Arg Arg Ser Arg Thr Ser Thr Lys Ser Thr Arg Thr Ser Ala Arg  
 85 90 95

Pro Gly Leu Thr Ala Thr Val Ser Ile Gly Leu Ser Asp Ser Pro Thr  
 100 105 110

Trp Arg His Cys Trp Met Thr Ala Arg Ser Cys Ser Gly Glu Lys Gly  
 115 120 125

Gly His Trp Ala Pro Arg Gln Val Gly Val Tyr Leu Leu Pro Gly Arg  
 130 135 140

Val Gly Cys Val Ser Ser Arg Val Ser Xaa Ser Phe Pro Gly Asp Gly  
 145 150 155 160

Leu Asp Ser Gly Leu Ala Xaa Arg Gly Ser Ala Val Ser Ala Leu Ala  
 165 170 175

Ser Gly Leu Val Glu Glu Pro Met Leu Gly Pro Pro Phe His Pro Thr  
 180 185 190

Pro Arg Phe Lys Ala Val Ser Ala Lys Ser Lys Glu Asp Leu Val Ser  
 195 200 205

497

Gln Gly Phe Thr Glu Phe Thr Ile Glu Asp Phe His Asn Thr Phe Met  
 210 215 220  
 Asp Leu Ile Glu Gln Val Glu Lys Gln Thr Ser Val Ala Asp Leu Leu  
 225 230 235 240  
 Ala Ser Phe Asn Asp Gln Ser Thr Ser Asp Tyr Leu Val Val Tyr Leu  
 245 250 255  
 Arg Leu Leu Thr Ser Gly Tyr Leu Gln Arg Glu Ser Lys Phe Phe Glu  
 260 265 270  
 His Phe Ile Glu Gly Gly Arg Thr Val Lys Glu Phe Cys Gln Gln Glu  
 275 280 285  
 Val Glu Pro Met Cys Lys Glu Ser Asp His Ile His Ile Ile Ala Leu  
 290 295 300  
 Ala Gln Ala Leu Ser Val Ser Ile Gln Val Glu Tyr Met Asp Arg Gly  
 305 310 315 320  
 Glu Gly Gly Thr Thr Asn Pro His Ile Phe Pro Glu Gly Ser Glu Pro  
 325 330 335  
 Lys Val Tyr Leu Leu Tyr Arg Pro Gly His Tyr Asp Ile Leu Tyr Lys  
 340 345 350

&lt;210&gt; 544

&lt;211&gt; 240

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 544

Ser Thr His Ala Ser Glu Met Ala Glu Arg Gly Tyr Ser Phe Ser Leu  
 1 5 10 15  
 Thr Thr Phe Ser Pro Ser Gly Lys Leu Val Gln Ile Glu Tyr Ala Leu  
 20 25 30  
 Ala Ala Val Ala Gly Gly Ala Pro Ser Val Gly Ile Lys Ala Ala Asn  
 35 40 45  
 Gly Val Val Leu Ala Thr Glu Lys Lys Gln Lys Ser Ile Leu Tyr Asp  
 50 55 60  
 Glu Arg Ser Val His Lys Val Glu Pro Ile Thr Lys His Ile Gly Leu

498

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65              70              75              80
Val Tyr Ser Gly Met Gly Pro Asp Tyr Arg Val Leu Val His Arg Ala
              85              90              95
Arg Lys Leu Ala Gln Gln Tyr Tyr Leu Val Tyr Gln Glu Pro Ile Pro
              100              105              110
Thr Ala Gln Leu Val Gln Arg Val Ala Ser Val Met Gln Glu Tyr Thr
              115              120              125
Gln Ser Gly Gly Val Arg Pro Phe Gly Val Ser Leu Leu Ile Cys Gly
              130              135              140
Trp Asn Glu Gly Arg Pro Tyr Leu Phe Gln Ser Asp Pro Ser Gly Ala
145              150              155              160
Tyr Phe Ala Trp Lys Ala Thr Ala Met Gly Lys Asn Tyr Val Asn Gly
              165              170              175
Lys Thr Phe Leu Glu Lys Arg Tyr Asn Glu Asp Leu Glu Leu Glu Asp
              180              185              190
Ala Ile His Thr Ala Ile Leu Thr Leu Lys Glu Ser Phe Glu Gly Gln
              195              200              205
Met Thr Glu Asp Asn Ile Glu Val Gly Ile Cys Asn Glu Ala Gly Phe
              210              215              220
Arg Arg Leu Thr Pro Thr Glu Val Lys Asp Tyr Leu Ala Ala Ile Ala
225              230              235              240

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&lt;210&gt; 545

&lt;211&gt; 181

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 545

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Arg Cys Ile Leu Tyr Thr Gly Phe Met Leu Gly Ala Gln Arg Glu Val
 1              5              10              15
Asp Ser Arg Leu Leu Ala Leu Pro Gly Arg Lys Val Pro Thr Ser Trp
              20              25              30
Trp Asp Asp Leu Phe Lys Gly Ala Lys Glu His Gly Ala Val Ala Val
              35              40              45

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499

Glu Arg Val Thr Lys Ser Pro Gly Glu Thr Ser Lys Pro Arg Pro Phe  
 50 55 60

Ala Gly Gly Gly Tyr Arg Leu Gly Ala Ala Pro Glu Glu Glu Ser Ala  
 65 70 75 80

Tyr Val Ala Gly Glu Lys Arg Gln His Ser Ser Gln Asp Val His Val  
 85 90 95

Val Leu Lys Leu Trp Lys Ser Gly Phe Ser Leu Asp Asn Gly Glu Leu  
 100 105 110

Arg Ser Tyr Gln Asp Pro Ser Asn Ala Gln Phe Leu Glu Ser Ile Arg  
 115 120 125

Arg Gly Glu Val Pro Ala Glu Leu Arg Arg Leu Ala His Gly Gly Gln  
 130 135 140

Val Asn Leu Asp Met Glu Asp His Arg Asp Glu Asp Phe Val Lys Pro  
 145 150 155 160

Lys Gly Ala Phe Lys Ala Phe Thr Gly Glu Gly Gln Lys Leu Gly Ser  
 165 170 175

Thr Ala Pro Arg Cys  
 180

<210> 546

<211> 197

<212> PRT

<213> Homo sapiens

<400> 546

Pro Arg Val Arg Arg Arg Ala Arg Ala Ala Ala Gly Ser Ser His Ala  
 1 5 10 15

Ala Met Ala Asp Ser Glu Leu Gln Leu Val Glu Gln Arg Ile Arg Ser  
 20 25 30

Phe Pro Asp Phe Pro Thr Pro Gly Val Val Phe Arg Asp Ile Ser Pro  
 35 40 45

Val Leu Lys Asp Pro Ala Ser Phe Arg Ala Ala Ile Gly Leu Leu Ala  
 50 55 60

Arg His Leu Lys Ala Thr His Gly Gly Arg Ile Asp Tyr Ile Ala Gly  
 65 70 75 80

500

Leu Asp Ser Arg Gly Phe Leu Phe Gly Pro Ser Leu Ala Gln Glu Leu  
85 90 95

Gly Leu Gly Cys Val Leu Ile Arg Lys Arg Gly Lys Leu Pro Gly Pro  
100 105 110

Thr Leu Trp Ala Ser Tyr Ser Leu Glu Tyr Gly Lys Ala Glu Leu Glu  
115 120 125

Ile Gln Lys Asp Ala Leu Glu Pro Gly Gln Arg Val Val Val Val Asp  
130 135 140

Asp Leu Leu Ala Thr Gly Gly Thr Met Asn Ala Ala Cys Glu Leu Leu  
145 150 155 160

Gly Arg Leu Gln Ala Glu Val Leu Glu Cys Val Ser Leu Val Glu Leu  
165 170 175

Thr Ser Leu Lys Gly Arg Glu Lys Leu Ala Pro Val Pro Phe Phe Ser  
180 185 190

Leu Leu Gln Tyr Glu  
195

<210> 547

<211> 93

<212> PRT

<213> Homo sapiens

**<220>**

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

**<400> 547**

Glu Thr Gly Lys Glu Ser Lys Ala Leu Phe Leu Pro Phe Pro Gly Ser  
1 5 10 15

Val Tyr Ser Thr Ser Thr Gly Glu Ala Ser Gly Glu Gly Leu Ser Pro  
20 25 30

Leu Pro His Leu His Glu Phe Trp Asn Ser Val Leu Leu Ala Ala Cys  
35 40 45

Phe Gln Leu Pro Pro Ile Ser Ile Ala Ala Gly Ser Ser Cys Leu Phe  
50 55 60

Tyr Ser Val Ile Lys His Pro Ala Pro Thr Leu Ser Gln Arg Ser Ile  
65 70 75 80